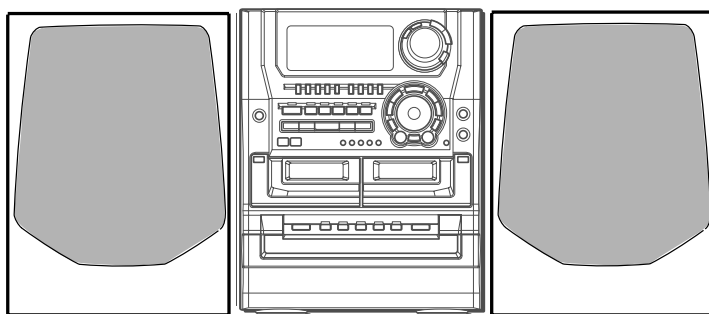


NSX-D77 U

NSX-T76 LH

NSX-T77 HS



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
BASIC CD MECHANISM: 6ZG-1 ZRNDM

SYSTEM	CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-D77	CX-ND77	SX-WND77	RC-ZAS04
NSX-T76	CX-NT76	SX-WNT98	
NSX-T77	CX-NT77	SX-WNT77	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" NSX-D77<U> (S/M Code No. 09-002-425-2T2) and NSX-T76<LH> (S/M Code No. 09-004-425-2T3) and NSX-T77<HS> (S/M Code No. 09-004-425-2T4).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1 (S/M Code No. 09-001-338-7N2).

aiwa

S/M Code No. 09-005-425-2R2

REVISION

DATA

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier

Power output*	40 W + 40 W (200 Hz - 20 kHz, THD less than 1%, 8 ohms)<U> Rated: 44 W + 44 W (8 ohms, THD 1%, 1 kHz) Reference: 55 W + 55 W (8 ohms, THD 10%, 1 kHz)<HS> Rated: 56 W + 56 W (8 ohms, THD 1%, 1 kHz) Reference: 70 W + 70 W (8 ohms, THD 10%, 1 kHz)<LH>
Total harmonic distortion	0.3% (26 W, 1 kHz, 8 ohms, DIN AUDIO)<U,HS> 0.3% (28 W, 1 kHz, 8 ohms, DIN AUDIO)<LH>

Low frequency amplifier

Power output*	120 W + 120 W (50 Hz - 200 Hz, THD less than 1%, 6 ohms)<U> Rated: 131 W + 131 W (6 ohms, THD 1%, 75 Hz) Reference: 165 W + 165 W (6 ohms, THD 10%, 75 Hz)<HS> Rated: 167 W + 167 W (6 ohms, THD 1%, 75 Hz) Reference: 210 W + 210 W (6 ohms, THD 10%, 75 Hz)<LH>
Total harmonic distortion	0.3 % (65 W, 75 Hz, 6 ohms, DIN AUDIO)<U,HS> 0.3 % (84 W, 75 Hz, 6 ohms, DIN AUDIO)<LH>

Inputs

* without connecting to surround speakers
VIDEO/AUX: 300 mV (adjustable)
MD: 300 mV (adjustable)

Outputs

MIC 1, MIC 2: 1 mV (10 kohms)
LINE OUT: 150 mV
SPEAKERS HIGH FREQ:
accept speakers of 8 ohms or more
SPEAKERS LOW FREQ:
accept speakers of 6 ohms or more
SURROUND SPEAKERS: accept
speakers of 8 to 16 ohms
PHONES (stereo jack): accepts
headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Signal-to-noise-ratio	60dB (Dolby B NR ON, CrO2 tape peak level)
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/Playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	83 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX-WND77><U>

Cabinet type	4 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 200 mm ($7\frac{7}{8}$ in.) cone type Woofer: 120 mm ($4\frac{3}{4}$ in.) cone type Tweeter: 60 mm ($2\frac{3}{8}$ in.) cone type Super Tweeter: 20 mm ($1\frac{3}{16}$ in.) ceramic type 6 ohms / 8 ohms
Impedance	6 ohms / 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 383 x 326 mm ($9\frac{7}{8}$ x $15\frac{1}{8}$ x $12\frac{1}{4}$ in.)
Weight	7.5 kg (16 lbs 9 oz)

<Speaker system SX-WNT98><LH>

Cabinet type	4 way, built-in subwoofer
Speakers	Subwoofer: 200 mm ($7\frac{7}{8}$ in.) cone type Mid range: 100 mm ($3\frac{15}{16}$ in.) cone type Tweeter: 60 mm ($2\frac{3}{8}$ in.) cone type Super Tweeter: 20 mm ($1\frac{3}{16}$ in.) ceramic type 6 ohms / 8 ohms
Impedance	6 ohms / 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 463 x 314 mm ($10\frac{1}{4}$ x $18\frac{1}{4}$ x $12\frac{3}{8}$ in.)
Weight	8.0 kg (17 lbs. 10 oz)

<Speaker system SX-WNT77><HS>


Cabinet type	4 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 200 mm ($7\frac{7}{8}$ in.) cone type Mid range: 100 mm (4 in.) cone type Tweeter: 60 mm ($2\frac{3}{8}$ in.) cone type Super Tweeter: 20 mm ($1\frac{3}{16}$ in.) ceramic type 6 ohms / 8 ohms
Impedance	6 ohms / 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	260 x 463 x 314 mm ($10\frac{1}{4}$ x 18 x $12\frac{3}{8}$ in.)
Weight	7.0 kg (15 lbs 7 oz)

<General>

Power requirements	120 V AC, 60 Hz<U>, 220 V AC, 60 Hz<HS> AC 120 V/220-230 V/240 V, (switchable) 50/60Hz<LH>
Power consumption	170 W<U>, 245 W<HS>, 275 W<LH>
Dimensions of main unit	300 x 382.6 x 396.4mm ($11\frac{7}{8}$ x $15\frac{1}{8}$ x $15\frac{5}{8}$ in.)
Weight of main unit	13.2 kg (29 lbs 2 oz)<U> 13.7 kg (30 lbs 3 oz)<HS,LH>

Standby power consumption

If the power-economizing mode is OFF: 35 W<U>, 36 W<HS,LH>
If the power-economizing mode is ON: 0.9 W

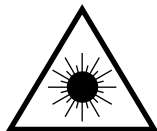
- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound, Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

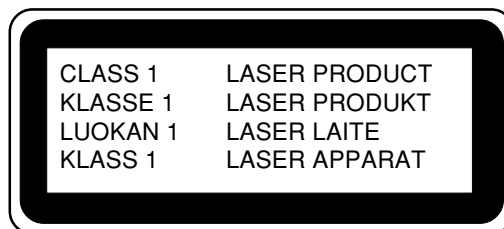
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.



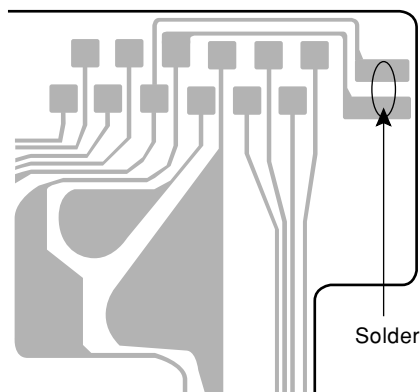
Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.

In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

- ① Remove the AC power cord.
- ② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
- ③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
- ④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
- ⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

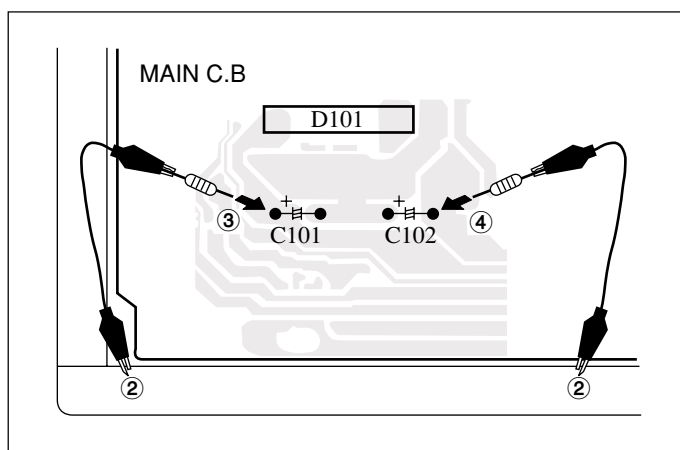


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is “H”, the MICROCOMPUTER is judged to be operating correctly. When this terminal is “L”, the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.

When the MICROCOMPUTER is not defective, the HOLD terminal can also go “L” when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to “L”.

• Good or no good judgement of the MICROCOMPUTER

- ① Turn on the AC main power.
- ② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the “H” level or not.
- ③ When the HOLD terminal is “L” level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

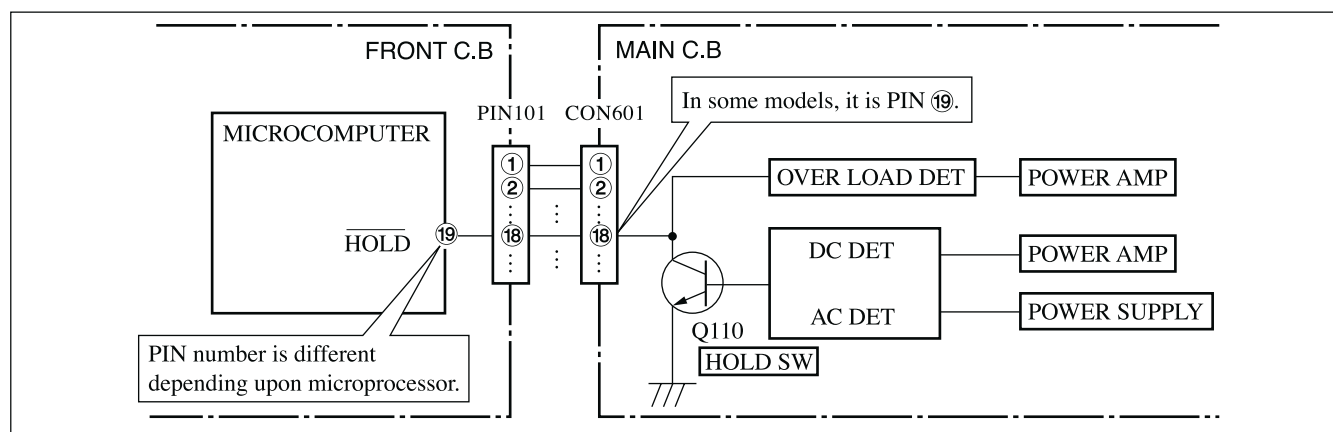


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.

When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

- ① Remove the AC power cord.

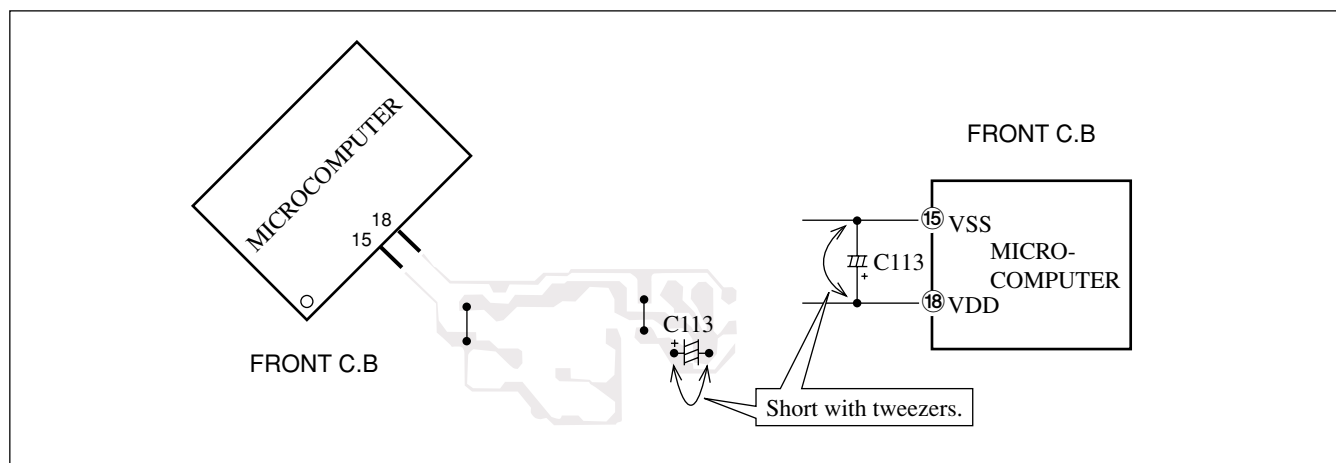


Fig-2-2

- ② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
- ③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	
IC					87-017-154-080		ZENER,HZS6C3L	
					87-020-331-080		CHIP-DIODE,DAN202K	
	8A-NF3-635-010		C-IC,LC876596W-5P43		87-A40-488-080		DIODE,1SS244	
	87-A21-482-010		IC,RPM6938-H4		87-A40-747-080		ZENER,UZ5.1BSB	
	87-A20-869-040		C-IC,M62449FP		87-A40-751-080		ZENER,UZ6.2BSB	
	87-A21-398-010		IC,STK490-110<HS,LH>					
	87-A21-397-010		IC,STK490-070<U>		87-A40-646-010		DIODE,FMB-G16L	
					87-A40-745-080		ZENER,UZ4.7BSA	
	87-A20-355-010		IC,CXA1553P		87-A40-749-080		ZENER,UZ5.6BSB	
	87-A20-783-040		C-IC,BA7762AFS		87-017-149-080		ZENER,HZS6A2L	
	87-A21-577-040		C-IC,M61506FP					
	87-070-289-040		IC,BU 2092F					
	87-A21-021-040		C-IC,BU2099FV	MAIN C.B				
	87-A21-018-040		C-IC,M65849BFP631D	C3	87-012-368-080		C-CAP,S 0.1-50 F	
	87-A21-452-030		C-IC,BD3876KS2	C4	87-012-368-080		C-CAP,S 0.1-50 F	
	87-A21-051-040		C-IC,BU9990-03FS<HS,LH>	C21	87-016-035-090		CAP,E 6800-35 VR	
	87-A21-560-010		IC,LA1844L-A	C22	87-016-035-090		CAP,E 6800-35 VR	
	87-070-127-110		IC,LC72131D	C25	87-010-990-080		CAP,E 33-100 M SME	
87-020-454-010		IC,DN6851	C26	87-016-300-080		CAP,E 22-100 M SME		
			C27	87-010-990-080		CAP,E 33-100 M SME		
			C28	87-016-300-080		CAP,E 22-100 M SME		
TRANSISTOR				C31	87-010-263-080		CAP, ELECT 100-10V	
				C32	87-010-197-080		CAP, CHIP 0.01 DM	
	87-A30-217-010		TR,2SB1436 (R)					
	87-026-245-080		TR,DTC114ES	C34	87-010-247-080		CAP, ELECT 100-50V	
	87-A30-198-080		TR,KTC3199GR	C35	87-010-406-080		CAP,E 22-50 M 11L SME	
	89-213-702-010		TR,2SB1370 (1.8W)	C36	87-010-381-080		CAP, ELECT 330-16V	
	87-026-610-080		TR,KTC3198GR	C38	87-010-393-080		CAP,E 100-35 M SME	
				C39	87-010-393-080		CAP,E 100-35 M SME	
	87-A30-105-080		C-TR,RT1P441C<LH>					
	87-A30-489-040		C-TR,KRA107S	C40	87-010-190-080		C-CAP,S 0.01-50 Z F C2012	
	87-A30-468-080		C-TR,KRC102S-RTK<LH>	C60	87-010-403-080		CAP, ELECT 3.3-50V	
	87-A30-484-080		C-TR,KRA102S<LH>	C80	87-010-401-080		CAP, ELECT 1-50V	
	87-A30-076-080		C-TR,2SC3052F	C81	87-010-374-080		CAP, ELECT 47-10V	
				C82	87-010-260-080		CAP, ELECT 47-25V	
	87-A30-075-080		C-TR,2SA1235F					
	87-A30-318-080		TR,CSA952K	C104	87-010-196-080		CHIP CAPACITOR,0.1-25	
	87-A30-218-080		TR,2SB1237 (Q)	C105	87-010-196-080		CHIP CAPACITOR,0.1-25	
	87-A30-087-080		C-FET,2SK2158	C111	87-010-401-080		CAP, ELECT 1-50V	
	87-A30-269-040		C-FET,2SJ461-T1	C112	87-010-401-080		CAP, ELECT 1-50V	
				C115	87-010-401-080		CAP, ELECT 1-50V	
	87-A30-073-080		C-TR,RT1N 141C					
	87-A30-074-080		C-TR,RT1P 141C	C116	87-010-401-080		CAP, ELECT 1-50V	
	87-A30-190-080		TR,CC5551	C117	87-012-142-080		C-CAP,S 0.33-16 Z F GRM<HS>	
	87-A30-097-010		TR,FN 1016	C118	87-012-142-080		C-CAP,S 0.33-16 Z F GRM<HS>	
	87-A30-098-010		TR,FP 1016	C121	87-010-406-080		CAP, ELECT 22-50	
				C122	87-010-406-080		CAP, ELECT 22-50	
	87-A30-106-040		C-TR,CMBT5551					
	87-A30-276-040		C-TR,DTA143EKA	C151	87-010-405-080		CAP,E 10-50 M 11L SME<U>	
	87-A30-063-080		C-TR,KRA104S	C152	87-010-260-080		CAP,E 47-25 M 11L SME<LH>	
	87-026-609-080		TR,KTA1266GR	C163	87-010-196-080		CHIP CAPACITOR,0.1-25	
	87-A30-107-070		C-TR,CMBT5401	C171	87-012-368-080		C-CAP,S 0.1-50 F	
				C172	87-012-368-080		C-CAP,S 0.1-50 F	
	87-A30-186-010		FET,2SK3053					
	87-A30-086-070		C-TR,CSD1306E	C173	87-012-368-080		C-CAP,S 0.1-50 F	
	87-A30-329-080		TR,CD1585BC	C174	87-012-368-080		C-CAP,S 0.1-50 F	
	89-327-143-080		TR,2SC2714 (0.1W)	C175	87-A11-572-080		C-CAP,S 0.015-50 K B	
	87-A30-072-080		C-TR,RT1P 144C	C176	87-A11-572-080		C-CAP,S 0.015-50 K B	
				C177	87-010-197-080		CAP, CHIP 0.01 DM	
	87-A30-234-080		TR,CSC4115BC					
	87-026-463-080		TR,2SA933SRS	C178	87-010-197-080		CAP, CHIP 0.01 DM	
			C301	87-010-318-080		C-CAP,S 47P-50 CH		
			C302	87-010-318-080		C-CAP,S 47P-50 CH		
DIODE			C303	87-012-157-080		C-CAP,S 330P-50 CH		
			C304	87-012-157-080		C-CAP,S 330P-50 CH		
	87-A40-673-090		DIODE,D10XB20					
	87-A40-553-080		DIODE,1N4003 LES	C305	87-012-157-080		C-CAP,S 330P-50 CH	
	87-A40-784-080		ZENER,UZ39BSB	C306	87-012-157-080		C-CAP,S 330P-50 CH	
	87-020-465-080		DIODE,1S8133	C307	87-010-196-080		CHIP CAPACITOR,0.1-25	
	87-A40-764-080		ZENER,UZ10BSC	C311	87-010-198-080		CAP, CHIP 0.022	
				C312	87-010-198-080		CAP, CHIP 0.022	
	87-A40-781-080		ZENER,UZ36BSA<LH>					
	87-A40-438-080		ZENER,MT2J4.7A<LH>	C313	87-010-180-080		C-CER 1500P	
	87-017-447-010		DIODE,GBU4DL-6419	C314	87-010-180-080		C-CER 1500P	
	87-017-654-060		DIODE,GBU6JL6131	C315	87-010-178-080		CHIP CAP 1000P	
	87-070-274-080		DIODE,1N4003 SEM	C316	87-010-178-080		CHIP CAP 1000P	
				C317	87-A10-201-080		C-CAP,S0.33-16 KB	
	87-A40-313-080		C-DIODE,MC 2840					
	87-A40-270-080		C-DIODE,MC2838	C318	87-A10-201-080		C-CAP,S0.33-16 KB	
	87-A40-269-080		C-DIODE,MC2836	C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F	
	87-A40-768-080		ZENER,UZ16BSA	C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F	

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C616	87-010-180-080		C-CER 1500P
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C617	87-010-198-080		CAP, CHIP 0.022
C324	87-010-260-080		CAP, ELECT 47-25V	C618	87-010-401-080		CAP, ELECT 1-50V
C325	87-010-370-080		CAP,E 330-6.3 SME	C619	87-010-263-080		CAP, ELECT 100-10V
C327	87-010-404-080		CAP, ELECT 4.7-50V	C620	87-016-669-080		C-CAP,S 0.1-25 K B
C328	87-010-404-080		CAP, ELECT 4.7-50V	C621	87-010-197-080		CAP, CHIP 0.01 DM
C332	87-010-196-080		CHIP CAPACITOR,0.1-25	C623	87-010-401-080		CAP, ELECT 1-50V
C335	87-010-401-080		CAP, ELECT 1-50V	C624	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V	C626	87-010-992-080		C-CAP,S 0.047-16 K B
C337	87-010-196-080		CHIP CAPACITOR,0.1-25	C627	87-010-400-080		CAP, ELECT 0.47-50V
C339	87-010-196-080		CHIP CAPACITOR,0.1-25	C628	87-010-400-080		CAP, ELECT 0.47-50V
C340	87-010-196-080		CHIP CAPACITOR,0.1-25	C629	87-010-992-080		C-CAP,S 0.047-16 K B
C351	87-012-140-080		CAP 470P	C630	87-010-383-080		CAP, ELECT 100-10V
C352	87-012-140-080		CAP 470P	C631	87-010-185-080		C-CAP,S 3900P-50 B
C354	87-010-175-080		CAP 560P	C632	87-010-185-080		C-CAP,S 3900P-50 B
C355	87-012-349-080		C-CAP,S 1000P-50 CH	C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C356	87-010-260-080		CAP, ELECT 47-25V	C635	87-A10-307-080		C-CAP,S 0.1-25 K B
C357	87-010-197-080		CAP, CHIP 0.01 DM	C636	87-A10-307-080		C-CAP,S 0.1-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 B	C637	87-A10-307-080		C-CAP,S 0.1-25 K B
C359	87-010-183-080		C-CAP,S 2700P-50 B	C638	87-A10-307-080		C-CAP,S 0.1-25 K B
C360	87-010-183-080		C-CAP,S 2700P-50 B	C639	87-010-405-080		CAP, ELECT 10-50V
C370	87-010-196-080		CHIP CAPACITOR,0.1-25	C641	87-010-401-080		CAP, ELECT 1-50V
C371	87-010-175-080		C-CAP,S 560P-50 SL	C642	87-010-401-080		CAP, ELECT 1-50V
C372	87-010-175-080		C-CAP,S 560P-50 SL	C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-010-179-080		CAP,CHIP S B1200P	C644	87-010-401-080		CAP, ELECT 1-50V
C374	87-010-179-080		CAP,CHIP S B1200P	C671	87-010-322-080		C-CAP,S 100P-50 CH
C375	87-010-545-080		CAP, ELECT 0.22-50V	C672	87-010-322-080		C-CAP,S 100P-50 CH
C376	87-010-545-080		CAP, ELECT 0.22-50V	C673	87-010-197-080		CAP, CHIP 0.01 DM
C378	87-010-196-080		CHIP CAPACITOR,0.1-25	C675	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM	C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C382	87-010-318-080		C-CAP,S 47P-50 CH	C680	87-010-197-080		CAP, CHIP 0.01 DM
C383	87-010-197-080		CAP, CHIP 0.01 DM	C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-402-080		CAP, ELECT 2.2-50V	C771	87-010-263-080		CAP, ELECT 100-10V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)	C772	87-010-197-080		CAP, CHIP 0.01 DM
C386	87-010-196-080		CHIP CAPACITOR,0.1-25	C773	87-010-184-080		CHIP CAPACITOR 3300P(K)
C388	87-012-156-080		C-CAP,S 220P-50 CH	C774	87-010-184-080		CHIP CAPACITOR 3300P(K)
C501	87-010-263-080		CAP, ELECT 100-10V	C779	87-A10-679-080		C-CAP,S 3300P-50 TR<LH>
C502	87-010-196-080		CHIP CAPACITOR,0.1-25	C780	87-A10-679-080		C-CAP,S 3300P-50 TR<LH>
C503	87-016-460-080		C-CAP,S 0.22-16 K B	C782	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-016-460-080		C-CAP,S 0.22-16 K B	C783	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-012-141-080		CHIP-CAPACITOR,0.22-16F	C784	87-010-197-080		CAP, CHIP 0.01 DM
C506	87-010-184-080		CHIP CAPACITOR 3300P(K)	C785	87-010-197-080		CAP, CHIP 0.01 DM
C507	87-A11-550-080		C-CAP,S 820P-50 K B	C786	87-010-197-080		CAP, CHIP 0.01 DM
C508	87-016-669-080		C-CAP,S 0.1-25 K B	C788	87-010-149-080		C-CAP,S 5P-50 CH
C509	87-016-669-080		C-CAP,S 0.1-25 K B	C789	87-A10-592-080		C-CAP,S 0.015-50 J<HS>
C510	87-010-184-080		CHIP CAPACITOR 3300P(K)	C789	87-012-365-080		C-CAP,S 0.027-25 K B<U,LH>
C511	87-A11-550-080		C-CAP,S 820P-50 K B	C790	87-A10-592-080		C-CAP,S 0.015-50 J<HS>
C512	87-016-460-080		C-CAP,S 0.22-16 K B	C790	87-012-365-080		C-CAP,S 0.027-25 K B<U,LH>
C513	87-010-544-080		CAP, ELECT 0.1-50V	C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C514	87-010-374-080		CAP, ELECT 47-10V	C792	87-010-197-080		CAP, CHIP 0.01 DM
C515	87-010-401-080		CAP, ELECT 1-50V	C793	87-010-404-080		CAP, ELECT 4.7-50V
C516	87-010-401-080		CAP, ELECT 1-50V	C795	87-010-197-080		CAP, CHIP 0.01 DM
C517	87-010-183-080		C-CAP,S 2700P-50 B	C796	87-010-197-080		CAP, CHIP 0.01 DM
C518	87-010-183-080		C-CAP,S 2700P-50 B	C797	87-010-405-080		CAP, ELECT 10-50V
C531	87-010-560-080		CAP,E 10-50 GAS	C798	87-010-197-080		CAP, CHIP 0.01 DM
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	C799	87-010-407-080		CAP, ELECT 33-50V
C533	87-010-196-080		CHIP CAPACITOR,0.1-25	C800	87-012-369-080		C-CAP,S 0.047-50F
C534	87-012-156-080		C-CAP,S 220P-50 CH	C801	87-010-403-080		CAP, ELECT 3.3-50V
C535	87-010-178-080		CHIP CAP 1000P	C802	87-012-369-080		C-CAP,S 0.047-50F
C536	87-010-196-080		CHIP CAPACITOR,0.1-25	C803	87-010-198-080		CAP, CHIP 0.022
C538	87-010-318-080		C-CAP,S 47P-50 CH	C804	87-010-263-080		CAP, ELECT 100-10V
C541	87-010-178-080		CHIP CAP 1000P	C807	87-010-400-080		CAP, ELECT 0.47-50V
C603	87-010-318-080		C-CAP,S 47P-50 CH	C808	87-010-401-080		CAP, ELECT 1-50V
C604	87-010-318-080		C-CAP,S 47P-50 CH	C809	87-010-401-080		CAP, ELECT 1-50V
C605	87-010-318-080		C-CAP,S 47P-50 CH	C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C606	87-010-318-080		C-CAP,S 47P-50 CH	C811	87-010-403-080		CAP, ELECT 3.3-50V
C611	87-010-956-080		CHIP-CAP,S 0.068-25B	C812	87-010-403-080		CAP, ELECT 3.3-50V
C612	87-010-369-080		C-CAP,S 0.033-25 K B	C814	87-010-197-080		CAP, CHIP 0.01 DM
C613	87-010-197-080		CAP, CHIP 0.01 DM	C815	87-010-400-080		CAP, ELECT 0.47-50V
C614	87-016-669-080		C-CAP,S 0.1-25 K B	C816	87-010-403-080		CAP, ELECT 3.3-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C819	87-010-179-080		CAP,CHIP S B1200P	R25	87-A00-261-080		RES,M/F 0.56-1W J
C820	87-010-179-080		CAP,CHIP S B1200P	R117	87-012-368-080		C-CAP,S 0.1-50 Z F<LH>
C821	87-010-405-080		CAP, ELECT 10-50V	R118	87-012-368-080		C-CAP,S 0.1-50 Z F<LH>
C823	87-010-177-080		C-CAP,S 820P-50 SL	R161	87-A00-441-050		RES,270-1/2W J RP
C824	87-010-404-080		CAP,E 4.7-50 M 11L SME<HS>	R162	87-A00-441-050		RES,270-1/2W J RP
C824	87-010-405-080		CAP, ELECT 10-50V<U,LH>	R163	87-A00-441-050		RES,270-1/2W J RP
C825	87-010-596-080		CAP, S 0.047-16	R164	87-A00-441-050		RES,270-1/2W J RP
C842	87-010-197-080		CAP, CHIP 0.01 DM	R790	87-010-197-080		CAP, CHIP 0.01 DM
C844	87-010-197-080		CAP, CHIP 0.01 DM	R991	87-010-322-080		C-CAP,S 100P-50 CH
C850	87-010-260-080		CAP, ELECT 47-25V	R993	87-010-322-080		C-CAP,S 100P-50 CH
C851	87-010-197-080		CAP, CHIP 0.01 DM	R995	87-010-322-080		C-CAP,S 100P-50 CH
C852	87-010-197-080		CAP, CHIP 0.01 DM	SFR301	87-024-355-080		SFR,33K DIA6 H
C853	87-010-197-080		CAP, CHIP 0.01 DM	SFR302	87-024-355-080		SFR,33K DIA6 H
C858	87-010-196-080		CHIP CAPACITOR,0.1-25	SFR303	87-024-355-080		SFR,33K DIA6 H
C859	87-010-196-080		CHIP CAPACITOR,0.1-25	SFR304	87-024-355-080		SFR,33K DIA6 H
C860	87-010-197-080		CAP, CHIP 0.01 DM	SFR305	87-024-356-080		SFR,47K DIA6 H
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	SFR306	87-024-356-080		SFR,47K DIA6 H
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	SFR351	87-024-356-080		SFR,47K DIA6 H
C961	87-010-152-080		C-CAP,S 8P-50 CH	SFR352	87-024-356-080		SFR,47K DIA6 H
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C971	87-010-381-080		CAP, ELECT 330-16V	DISPLAY C.B			
C972	87-010-404-080		CAP, ELECT 4.7-50V	C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C973	87-010-197-080		CAP, CHIP 0.01 DM	C104	87-010-313-080		CAP, CHIP 18P
C974	87-010-197-080		CAP, CHIP 0.01 DM	C105	87-010-322-080		C-CAP,S 100P-50 CH
C979	87-010-322-080		C-CAP,S 100P-50 CH	C106	87-012-145-080		CAP, CHIP S 270P CH
C981	87-010-260-080		CAP, ELECT 47-25V	C107	87-012-157-080		C-CAP,S 330P-50 CH
C982	87-010-196-080		CHIP CAPACITOR,0.1-25	C108	87-015-681-040		E/CAP 10-16
C983	87-010-197-080		CAP, CHIP 0.01 DM	C109	87-010-401-040		CAP,E 1-50 SME
C984	87-010-197-080		CAP, CHIP 0.01 DM	C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C987	87-010-197-080		CAP, CHIP 0.01 DM	C112	87-016-460-080		C-CAP,S 0.22-16 K B
C991	87-010-312-080		C-CAP,S 15P-50 CH	C113	87-A10-189-040		CAP,E 220-10
C992	87-010-312-080		C-CAP,S 15P-50 CH	C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C993	87-010-178-080		CHIP CAP 1000P	C115	87-010-198-080		CAP, CHIP 0.022
C995	87-010-178-080		CHIP CAP 1000P	C116	87-010-493-040		CAP,E 0.47-50 GAS
C997	87-010-196-080		CHIP CAPACITOR,0.1-25	C117	87-010-498-040		CAP,E 10-16 GAS
C998	87-010-260-080		CAP, ELECT 47-25V	C118	87-010-194-080		CAP, CHIP 0.047
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	C119	87-A10-797-040		CAP,E 47-35 M 5L SRM
CF831	87-008-261-010		FILTER, SFE10.7MA5-A	C120	87-015-699-040		CAP,E 10-50 7L
CF832	87-008-261-010		FILTER, SFE10.7MA5-A	C121	87-015-699-040		CAP,E 10-50 7L
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C122	87-010-197-080		CAP, CHIP 0.01 DM
CN91	87-A60-619-010		CONN,2P V 2MM JMT	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
CN92	87-A60-619-010		CONN,2P V 2MM JMT	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3	C128	87-010-178-080		CHIP CAP 1000P
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C129	87-010-194-080		CAP, CHIP 0.047
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C131	87-A10-189-040		CAP,E 220-10
CN601	87-099-719-010		CONN,30P TYK-B(X)	C132	87-A10-189-040		CAP,E 220-10
CN602	87-A60-131-010		CONN,6P V FE	C151	87-010-194-080		CAP, CHIP 0.047
CN605	87-099-568-010		CONN,11P TUC-P11P-B1	C192	87-015-785-080		C-CAP, 0.1-25 Z F C3216
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)	C196	87-010-194-080		CAP, CHIP 0.047
CNA2	8A-NF3-640-110		CONN ASSY,3P (VM) ANF-3<HS,LH>	C197	87-010-194-080		CAP, CHIP 0.047
CNA3	87-049-919-010		CONN,3P V WHT EH	C213	87-A10-189-040		CAP,E 220-10
FB501	87-008-372-080		FILTER, EMI BL OIRNI	C301	87-010-318-080		C-CAP,S 47P-50 CH
FC602	88-906-481-110		FF-CABLE,6P 1.25 480MM	C303	87-016-460-080		C-CAP,S 0.22-16 K B
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM	C304	87-016-460-080		C-CAP,S 0.22-16 K B
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)	C305	87-010-196-080		CHIP CAPACITOR,0.1-25
J103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM	C306	87-010-196-080		CHIP CAPACITOR,0.1-25
J601	87-A60-885-010		JACK,PIN 6P R/W MSC	C310	87-010-067-040		CAP,E 0.1-50 5L
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02	C701	87-010-981-040		CAP,E 22-35 5L SRE
L101	87-A50-610-010		COIL,1UHK	C801	87-012-156-080		C-CAP,S 220P-50 CH<HS,LH>
L102	87-A50-610-010		COIL,1UHK	C802	87-010-176-080		C-CAP,S 680P-50 SL<HS,LH>
L301	87-A50-049-010		COIL,TRAP 85K(COI)	C803	87-010-187-080		CAP CHIP S5600P<HS,LH>
L302	87-A50-049-010		COIL,TRAP 85K(COI)	C804	87-010-213-080		C-CAP,S 0.015-50 B<HS,LH>
L351	87-007-342-010		COIL,OSC 85K BIAS	C805	87-010-197-080		CAP, CHIP 0.01 DM<HS,LH>
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C806	87-010-071-040		CAP,E 1-50 M 5L SRE<HS,LH>
L802	87-A91-551-010		FLTR,PCFJZH-450L (TOK)	C807	87-010-197-080		CAP, CHIP 0.01 DM<HS,LH>
L811	87-005-847-080		COIL,2.2UH (CECS)	C809	87-012-155-080		C-CAP 180P-50CH<HS,LH>
L821	87-A50-209-010		COIL,1POLE MPX(MIT)	C810	87-010-264-040		CAP,E 100-10 5L<HS,LH>
L822	87-A50-209-010		COIL,1POLE MPX(MIT)	C811	87-010-244-040		CAP,E 22-16 5L<HS,LH>
L832	87-005-847-080		COIL,2.2UH (CECS)				
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C812	87-016-044-040		CAP,E 100-16 GAS<HS,LH>	LED456	87-A40-537-040		LED,SLR-56PT-T31-W<U>
C821	87-010-196-080		CHIP CAPACITOR,0.1-25<HS,LH>	LED456	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>
C833	87-010-322-080		C-CAP,S 100P-50 CH<HS,LH>	LED461	87-A40-317-080		LED,SLR-342VCT31 RED
C901	87-012-157-080		C-CAP,S 330P-50 CH	LED462	87-A40-317-080		LED,SLR-342VCT31 RED
C902	87-010-176-080		C-CAP,S 680P-50 SL	LED463	87-A40-317-080		LED,SLR-342VCT31 RED
C903	87-010-176-080		C-CAP,S 680P-50 SL	LED464	87-A40-317-080		LED,SLR-342VCT31 RED
C904	87-010-176-080		C-CAP,S 680P-50 SL	LED465	87-A40-317-080		LED,SLR-342VCT31 RED
C905	87-010-176-080		C-CAP,S 680P-50 SL	LED521	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
C906	87-010-176-080		C-CAP,S 680P-50 SL	LED522	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
C907	87-010-176-080		C-CAP,S 680P-50 SL	S201	87-A90-095-080		SW,TACT EVQ11G04M
C908	87-010-176-080		C-CAP,S 680P-50 SL	S202	87-A90-095-080		SW,TACT EVQ11G04M
C909	87-010-176-080		C-CAP,S 680P-50 SL	S203	87-A90-095-080		SW,TACT EVQ11G04M
C910	87-010-176-080		C-CAP,S 680P-50 SL	S204	87-A90-095-080		SW,TACT EVQ11G04M
C911	87-010-176-080		C-CAP,S 680P-50 SL	S205	87-A90-095-080		SW,TACT EVQ11G04M
C912	87-010-176-080		C-CAP,S 680P-50 SL	S206	87-A90-095-080		SW,TACT EVQ11G04M
C913	87-010-176-080		C-CAP,S 680P-50 SL	S207	87-A90-095-080		SW,TACT EVQ11G04M
C914	87-012-145-080		CAP,CHIP S 270P CH	S208	87-A90-095-080		SW,TACT EVQ11G04M
CN101	87-099-720-010		CONN,30P TYK-B(P)	S211	87-A90-095-080		SW,TACT EVQ11G04M
CN102	87-A60-054-010		CONN,14P V 9604S-14C	S212	87-A90-095-080		SW,TACT EVQ11G04M<HS,LH>
CN103	87-099-750-010		CONN,15P V 9604SC	S213	87-A90-095-080		SW,TACT EVQ11G04M<HS,LH>
CN601	87-A60-062-010		CONN,05P V 9604S-05C	S214	87-A90-095-080		SW,TACT EVQ11G04M
CN701	87-099-750-010		CONN,15P V 9604SC	S215	87-A90-095-080		SW,TACT EVQ11G04M<HS,LH>
FC102	88-914-481-110		FF-CABLE,14P 1.25 480MM	S216	87-A90-095-080		SW,TACT EVQ11G04M
FC601	88-905-081-110		FF-CABLE,5P 1.25	S217	87-A90-095-080		SW,TACT EVQ11G04M
FC701	88-915-161-110		FF-CABLE,15P 1.25	S221	87-A90-095-080		SW,TACT EVQ11G04M
FL101	8A-NF3-613-010		FL,BJ752GK-ANF3	S222	87-A90-095-080		SW,TACT EVQ11G04M
JR102	83-XM1-617-080		C-COIL,BK2125HM601<HS>	S223	87-A90-095-080		SW,TACT EVQ11G04M
L101	87-A50-333-010		COIL,OSC 9.43MHZ	S224	87-A90-095-080		SW,TACT EVQ11G04M
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ<HS,LH>	S225	87-A90-095-080		SW,TACT EVQ11G04M
L802	87-003-098-080		COIL,2.2UH<HS,LH>	S226	87-A90-095-080		SW,TACT EVQ11G04M<HS,LH>
CONTROL C.B				S227	87-A90-095-080		SW,TACT EVQ11G04M<HS,LH>
C401	87-010-196-080		CHIP CAPACITOR,0.1-25	S228	87-A90-095-080		SW,TACT EVQ11G04M
C407	87-010-322-080		C-CAP,S 100P-50 CH	S229	87-A90-095-080		SW,TACT EVQ11G04M
C410	87-010-196-080		CHIP CAPACITOR,0.1-25	S230	87-A90-095-080		SW,TACT EVQ11G04M
C417	87-010-322-080		C-CAP,S 100P-50 CH	S231	87-A90-095-080		SW,TACT EVQ11G04M
C423	87-010-196-080		CHIP CAPACITOR,0.1-25	S232	87-A90-095-080		SW,TACT EVQ11G04M
C424	87-010-196-080		CHIP CAPACITOR,0.1-25	S241	87-A90-095-080		SW,TACT EVQ11G04M
C501	87-010-178-080		CHIP CAP 1000P	S242	87-A90-095-080		SW,TACT EVQ11G04M
C502	87-012-156-080		C-CAP,S 220P-50 CH	S243	87-A90-095-080		SW,TACT EVQ11G04M
C531	87-010-196-080		CHIP CAPACITOR,0.1-25	S244	87-A90-095-080		SW,TACT EVQ11G04M
C532	87-010-196-080		CHIP CAPACITOR,0.1-25	S245	87-A90-095-080		SW,TACT EVQ11G04M
CN104	87-099-750-010		CONN,15P V 9604SC	S246	87-A90-095-080		SW,TACT EVQ11G04M
CN302	87-A60-059-010		CONN,08P V 9604S-08C	S247	87-A90-095-080		SW,TACT EVQ11G04M
FC104	88-915-161-110		FF-CABLE,15P 1.25	S248	87-A90-095-080		SW,TACT EVQ11G04M
FC302	88-908-381-110		FF-CABLE,8P 1.25	S249	87-A90-095-080		SW,TACT EVQ11G04M
LED101	87-A40-317-080		LED,SLR-342VCT31 RED	S250	87-A90-095-080		SW,TACT EVQ11G04M
LED421	87-A40-831-010		LED,SELU1E10CXM-LF70 BLUE-DEF	S251	87-A90-095-080		SW,TACT EVQ11G04M
LED422	87-A40-831-010		LED,SELU1E10CXM-LF70 BLUE-DEF	SW501	87-A91-739-010		SW,RTRY EC12E12404-25MM RT
LED440	87-A40-380-180		LED,SEL6510C-TP5 GRN	AMP C.B			
LED441	87-A40-380-180		LED,SEL6510C-TP5 GRN	C101	87-010-188-080		CHIP CAP 6800P
LED442	87-A40-380-180		LED,SEL6510C-TP5 GRN	C102	87-010-188-080		CHIP CAP 6800P
LED443	87-A40-380-180		LED,SEL6510C-TP5 GRN	C103	87-010-405-080		CAP, ELECT 10-50V
LED444	87-A40-380-180		LED,SEL6510C-TP5 GRN	C104	87-010-405-080		CAP, ELECT 10-50V
LED445	87-A40-380-180		LED,SEL6510C-TP5 GRN	C107	87-010-404-080		CAP, ELECT 4.7-50V
LED446	87-A40-380-180		LED,SEL6510C-TP5 GRN	C108	87-010-404-080		CAP, ELECT 4.7-50V
LED447	87-A40-380-180		LED,SEL6510C-TP5 GRN	C111	87-010-322-080		C-CAP,S 100P-50 CH
LED448	87-A40-380-180		LED,SEL6510C-TP5 GRN	C112	87-010-322-080		C-CAP,S 100P-50 CH
LED449	87-A40-380-180		LED,SEL6510C-TP5 GRN	C113	87-A10-812-080		C-CAP,S 220P-200 J CH
LED451	87-A40-537-040		LED,SLR-56PT-T31-W<U>	C114	87-A10-812-080		C-CAP,S 220P-200 J CH
LED451	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>	C119	87-010-197-080		CAP,CHIP 0.01 DM
LED452	87-A40-537-040		LED,SLR-56PT-T31-W<U>	C120	87-010-197-080		CAP,CHIP 0.01 DM
LED452	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>	C121	87-010-260-080		CAP, ELECT 47-25V
LED453	87-A40-537-040		LED,SLR-56PT-T31-W<U>	C122	87-010-260-080		CAP, ELECT 47-25V
LED453	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>	C173	87-010-186-080		CAP,CHIP 4700P
LED454	87-A40-537-040		LED,SLR-56PT-T31-W<U>	C174	87-010-186-080		CAP,CHIP 4700P
LED454	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>	C205	87-010-187-080		C-CAP,S 5600P-50 K B
LED455	87-A40-537-040		LED,SLR-56PT-T31-W<U>	C206	87-010-187-080		C-CAP,S 5600P-50 K B
LED455	87-A40-809-040		LED,LTL-307KK PGRN<HS,LH>	C207	87-010-403-080		CAP, ELECT 3.3-50V

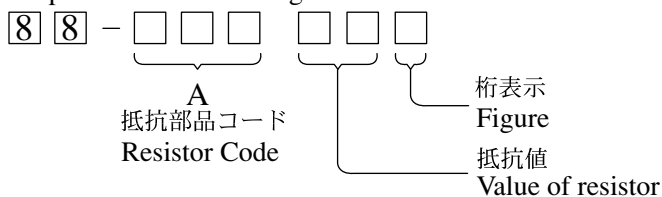
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C208	87-010-403-080		CAP, ELECT 3.3-50V	C37	87-A11-148-080		CAP,TC U 0.1-50 Z F
C209	87-010-184-080		CHIP CAPACITOR 3300P(K)	C38	87-A11-148-080		CAP,TC U 0.1-50 Z F
C210	87-010-184-080		CHIP CAPACITOR 3300P(K)	△ CN1	87-A61-110-010		CONN,9P V TID-A
C211	87-010-401-080		CAP, ELECT 1-50 M 11L SME	△ CN2	87-A61-108-010		CONN,5P V TID-A
C212	87-010-401-080		CAP, ELECT 1-50 M 11L SME	△ FC1	87-033-213-080		FUSE, CLAMP PFC5000
C215	87-012-156-080		C-CAP,S 220P-50 CH	△ FC2	87-033-213-080		FUSE, CLAMP PFC5000
C216	87-012-156-080		C-CAP,S 220P-50 CH	△ FC3	87-033-213-080		FUSE, CLAMP PFC5000<LH>
C217	87-010-260-080		CAP, ELECT 47-25V	△ PR3	87-A90-195-080		PROTECTOR,7A 491SERIE 60V<HS,LH>
C218	87-010-260-080		CAP, ELECT 47-25V	△ PT1	8A-NF4-601-010		PT,U EI96-60 ANF-4<U>
C221	87-016-100-080		CAP,E 10-50 M BP SME	△ PT1	8A-NF4-602-010		PT,LH EI96-60 ANF-4<LH>
C222	87-016-100-080		CAP,E 10-50 M BP SME	△ PT1	8A-NF4-605-010		PT,HS EI96-60 ANF-4<HS>
C223	87-010-197-080		CAP, CHIP 0.01 DM	△ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H) KAMI<LH>
C224	87-010-197-080		CAP, CHIP 0.01 DM	△ PT2	8A-NF8-661-010		PT,SUB ANF-8 (U) KAMI<U>
C249	87-012-368-080		C-CAP,S 0.1-50 F	△ PT2	8A-NF8-662-010		PT,SUB ANF-8 (EKZ) KAMI<HS>
C251	87-010-993-080		C-CAP,S 0.056-25 B	△ RY1	87-A90-976-010		RELAY,AC12V SDT-S-112LMR<U,HS>
C252	87-010-196-080		CHIP CAPACITOR,0.1-25	△ RY2	87-A91-300-010		RELAY,AC 12V-ALA2PF12<LH>
C253	87-010-196-080		CHIP CAPACITOR,0.1-25	△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
C254	87-010-993-080		C-CAP,S 0.056-25 B	T1	87-A60-317-010		TERMINAL, 1P MSC
C255	87-010-190-080		S CHIP F 0.01	T2	87-A60-317-010		TERMINAL, 1P MSC
C256	87-010-190-080		S CHIP F 0.01				
C402	87-010-196-080		CHIP CAPACITOR,0.1-25	GEQ C.B			
C413	87-A10-119-080		CAP,E 10-100 REA				
C414	87-A10-119-080		CAP,E 10-100 REA	C201	87-010-402-080		CAP, ELECT 2.2-50V
CNA103	8A-NF8-656-010		CONN ASSY,5P TID-A(400)	C202	87-010-402-080		CAP, ELECT 2.2-50V
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C205	87-010-404-080		CAP, ELECT 4.7-50V
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3	C207	87-016-669-080		C-CAP,S 0.1-25 K B
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE	C208	87-016-669-080		C-CAP,S 0.1-25 K B
L251	87-A50-610-010		COIL,1UH K(MDEC)	C209	87-016-460-080		C-CAP,S 0.22-16 B
L252	87-A50-610-010		COIL,1UH K(MDEC)	C210	87-016-460-080		C-CAP,S 0.22-16 B
R161	87-A00-418-010		RES,M/F 0.15-3W J	C211	87-012-365-080		C-CAP,S 0.027-25VBK
R162	87-A00-418-010		RES,M/F 0.15-3W J	C212	87-012-365-080		C-CAP,S 0.027-25VBK
R165	87-A00-418-010		RES,M/F 0.15-3W J	C213	87-010-956-080		CHIP-CAP,S 0.068-25B
R166	87-A00-418-010		RES,M/F 0.15-3W J	C214	87-010-956-080		CHIP-CAP,S 0.068-25B
R231	87-A00-258-080		RES,M/F 0.22-1W J	C215	87-010-197-080		CAP, CHIP 0.01 DM
R232	87-A00-258-080		RES,M/F 0.22-1W J	C216	87-010-197-080		CAP, CHIP 0.01 DM
R243	87-A00-258-080		RES,M/F 0.22-1W J	C217	87-010-198-080		CAP, CHIP 0.022
R244	87-A00-258-080		RES,M/F 0.22-1W J	C218	87-010-198-080		CAP, CHIP 0.022
RY201	87-A91-686-010		RELAY,G5PA-28(OMROM)	C219	87-010-183-080		C-CAP,S 2700P-50 B
TH101	87-A91-042-080		C-THMS,100K 55001	C220	87-010-183-080		C-CAP,S 2700P-50 B
TH102	87-A91-042-080		C-THMS,100K 55001	C221	87-010-188-080		CAP,CHIP 6800P
WH103	87-A90-459-010		HLDR,WIRE 2.5-5P	C222	87-010-188-080		CAP,CHIP 6800P
				C223	87-010-178-080		CHIP CAP 1000P
PT C.B				C224	87-010-178-080		CHIP CAP 1000P
C1	87-010-387-080		CAP,E 470-25 SME	C225	87-010-182-080		C-CAP,S 2200P-50 B
C2	87-A11-148-080		CAP,TC U 0.1-50 Z F	C226	87-010-182-080		C-CAP,S 2200P-50 B
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F	C227	87-010-112-080		CAP, ELECT 100-16V
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F	C228	87-010-196-080		CHIP CAPACITOR,0.1-25
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F	C229	87-010-322-080		C-CAP,S 100P-50 CH
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F	C230	87-010-322-080		C-CAP,S 100P-50 CH
C12	87-010-917-000		CAP,E 3300-50 M SMG	C231	87-010-322-080		C-CAP,S 100P-50 CH
C13	87-010-917-000		CAP,E 3300-50 M SMG	CN201	87-A60-546-010		CONN,11P H GRY TUC-P11X-C1
C16	87-010-403-040		CAP,E 3.3-50 SME				
C18	87-A11-148-080		CAP,TC U 0.1-50 Z F	VM C.B			
C19	87-A11-148-080		CAP,TC U 0.1-50 Z F	CN301	87-A60-079-010		CONN,08P H 9604S-08F
C20	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C21	87-A11-148-080		CAP,TC U 0.1-50 Z F	VOLUME C.B			
C22	87-A10-231-090		CAP,E 3300-80	S511	87-A90-095-080		SW,TACT EVQ11G04M
C23	87-A10-231-090		CAP,E 3300-80	S512	87-A90-095-080		SW,TACT EVQ11G04M
C27	87-A11-148-080		CAP,TC U 0.1-50 Z F	S513	87-A90-095-080		SW,TACT EVQ11G04M
C28	87-A11-148-080		CAP,TC U 0.1-50 Z F	S514	87-A90-095-080		SW,TACT EVQ11G04M
C29	87-A11-148-080		CAP,TC U 0.1-50 Z F	S515	87-A90-095-080		SW,TACT EVQ11G04M
C30	87-A11-148-080		CAP,TC U 0.1-50 Z F	SW101	87-A91-740-010		SW,RTRY EC12E24308-30MM
C31	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C32	87-A11-148-080		CAP,TC U 0.1-50 Z F	MIC C.B			
C33	87-A11-148-080		CAP,TC U 0.1-50 Z F	C161	87-010-178-080		CHIP CAP 1000P
C34	87-A11-148-080		CAP,TC U 0.1-50 Z F	C162	87-012-156-080		C-CAP,S 220P-50 CH
C35	87-A11-148-080		CAP,TC U 0.1-50 Z F	C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C36	87-A11-148-080		CAP,TC U 0.1-50 Z F				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C602	87-010-186-080		CAP,CHIP 4700P	DECK C.B			
C603	87-010-112-040		CAP,E 100-16	W1	82-ZM3-601-010		RBN,CORD,4P-75
C604	87-010-405-040		CAP,E 10-50	CON105	87-099-756-010		CONN,15P 9604 S F
C605	87-010-546-040		CAP,E 0.33-50	SFR1	87-024-581-010		SFR,3.3K DIA 6H
C606	87-010-320-080		CHIP CAP 68P	SOL1	82-ZM1-618-410		SOL ASSY,27
				SOL2	82-ZM1-618-410		SOL ASSY,27
C608	87-012-157-080		C-CAP,S 330P-50 CH	SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
C621	87-010-178-080		CHIP CAP 1000P	SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
CN602	87-A60-082-010		CONN,05P H 9604S-05F	SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM	SW4	87-036-110-010		SW,MICRO SPPB62
J602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM	SW5	87-036-110-010		SW,MICRO SPPB62
L601	87-003-098-080		COIL,2.2UH K LAL02	SW6	87-036-110-010		SW,MICRO SPPB62
CD KEY C.B				SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
				SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
LED311	87-A40-380-180		LED,SEL6510C-TP5 GRN	HEAD-1 C.B			
LED312	87-A40-380-180		LED,SEL6510C-TP5 GRN		85-ZM3-602-010		PWB,FLEX A
LED313	87-A40-380-180		LED,SEL6510C-TP5 GRN	HEAD-2 C.B			
LED314	87-A40-380-180		LED,SEL6510C-TP5 GRN		85-ZM3-602-010		PWB,FLEX A
LED315	87-A40-380-180		LED,SEL6510C-TP5 GRN	CON351	87-NF6-616-010		CONN ASSY,8P-RPB
S311	87-A90-095-080		SW,TACT EVQ11G04M				
S312	87-A90-095-080		SW,TACT EVQ11G04M				
S313	87-A90-095-080		SW,TACT EVQ11G04M				
S314	87-A90-095-080		SW,TACT EVQ11G04M				
S315	87-A90-095-080		SW,TACT EVQ11G04M				
S316	87-A90-095-080		SW,TACT EVQ11G04M				
S317	87-A90-095-080		SW,TACT EVQ11G04M				


チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

KTA1266GR
KTC3198GR
KTC3199GR
CSA952K



E C B

CC5551



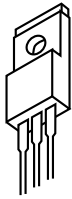
E C B

DTC114ES



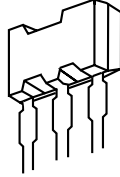
E C B

2SB1436



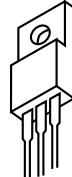
B C E

2SB1370
FP1016
FN1016



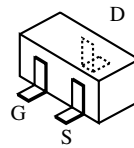
E C B

2SB1237Q

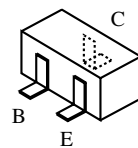


G D S

2SK3053

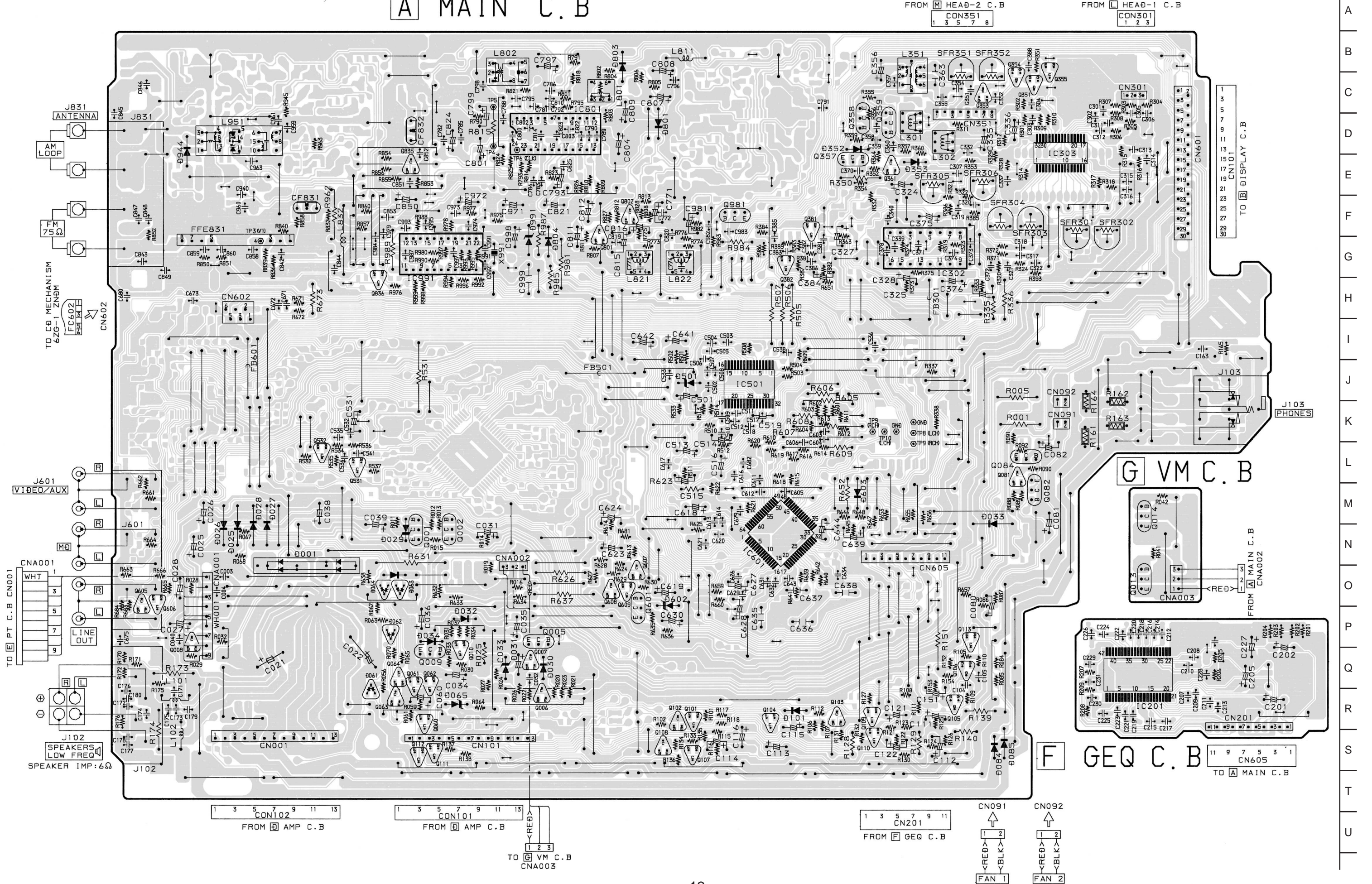


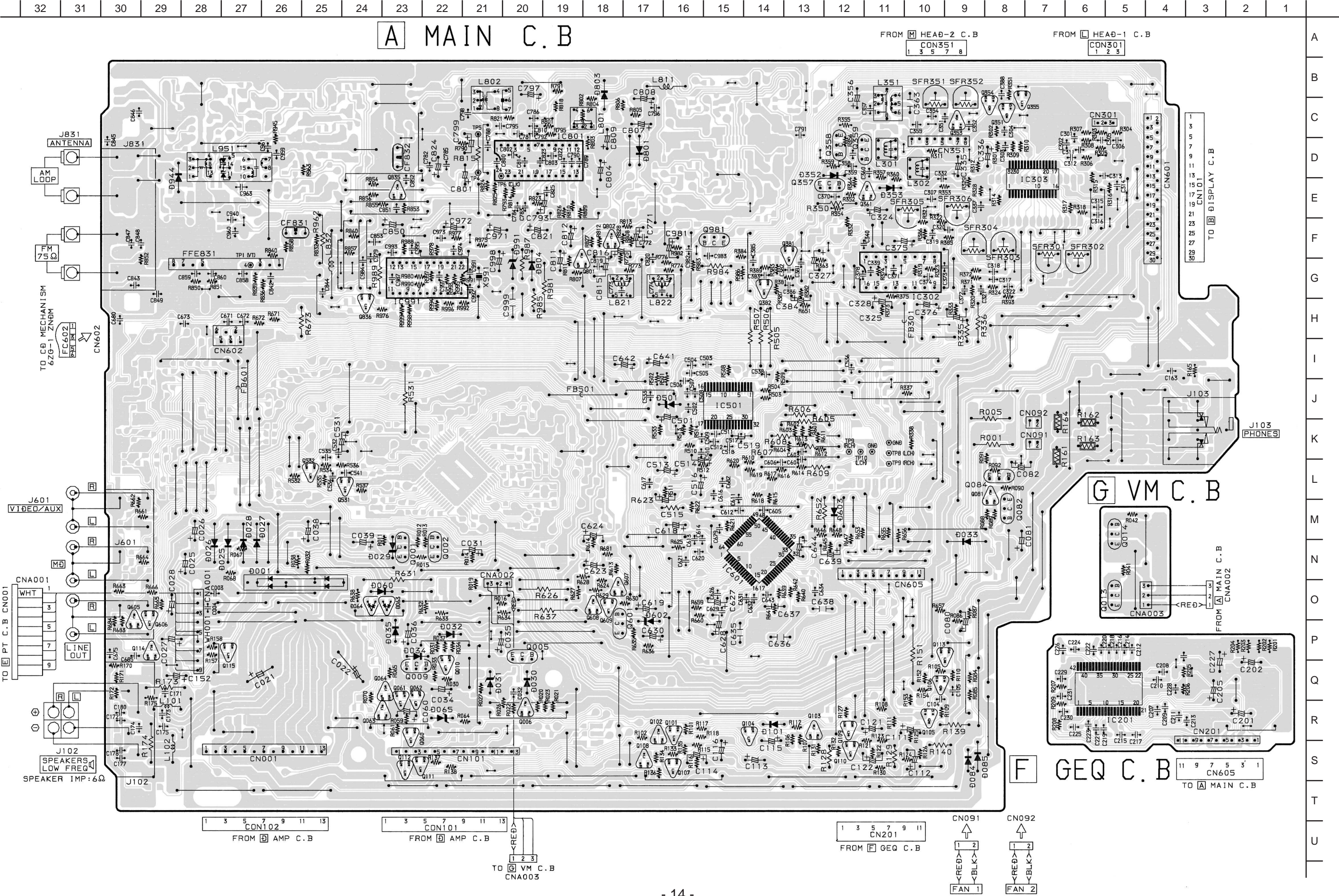
2SK2158
2SJ461-T1



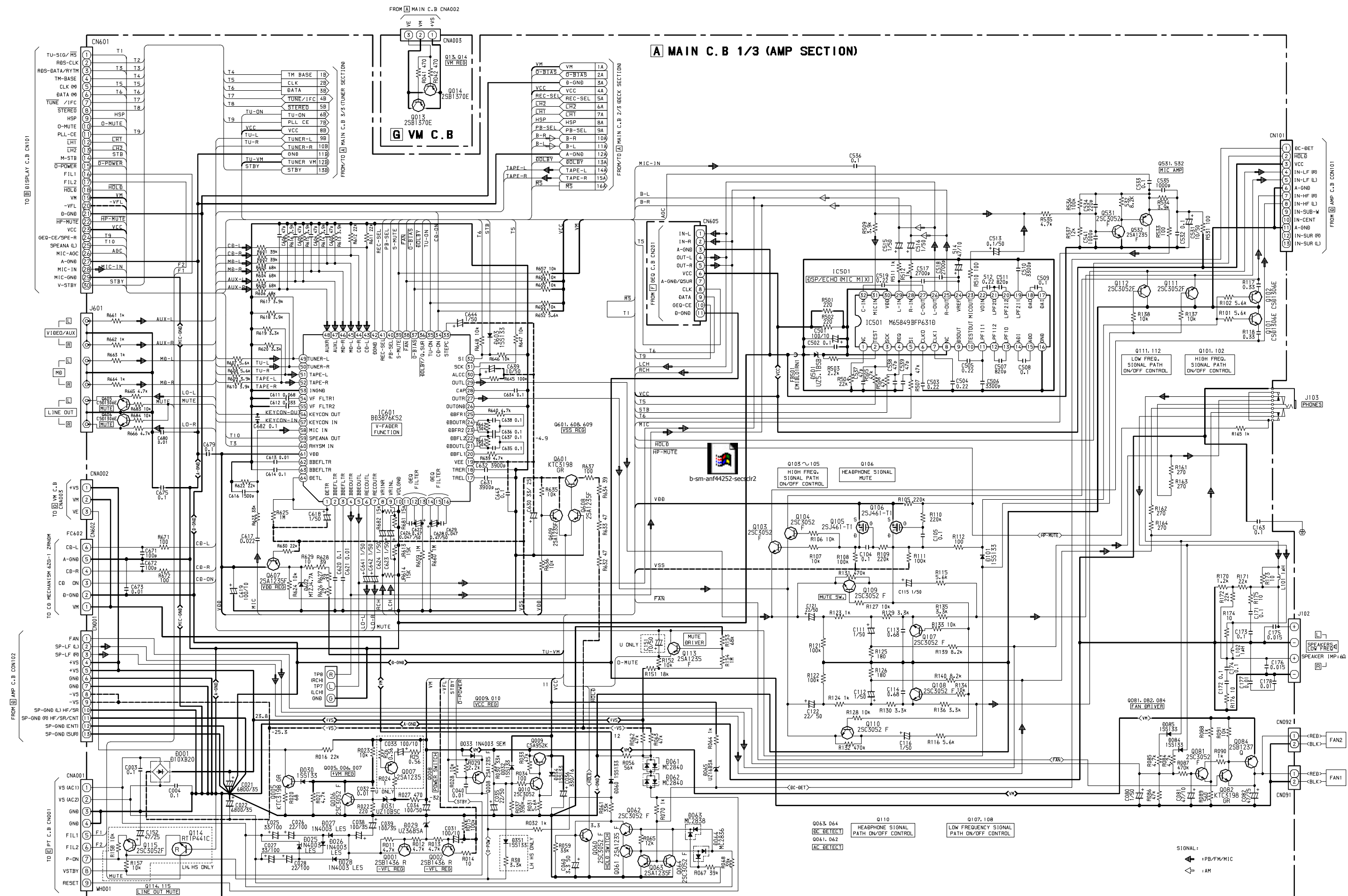
2SA1235F
2SC2714O
2SC3052F
CMBT5551
CMBT5401
CSD1306E
DTA143EKA
KRA102S

KRA104S
KRA107S
KRC102S-RTK
RT1N141C
RT1P141C
RT1P144C
RT1P441C

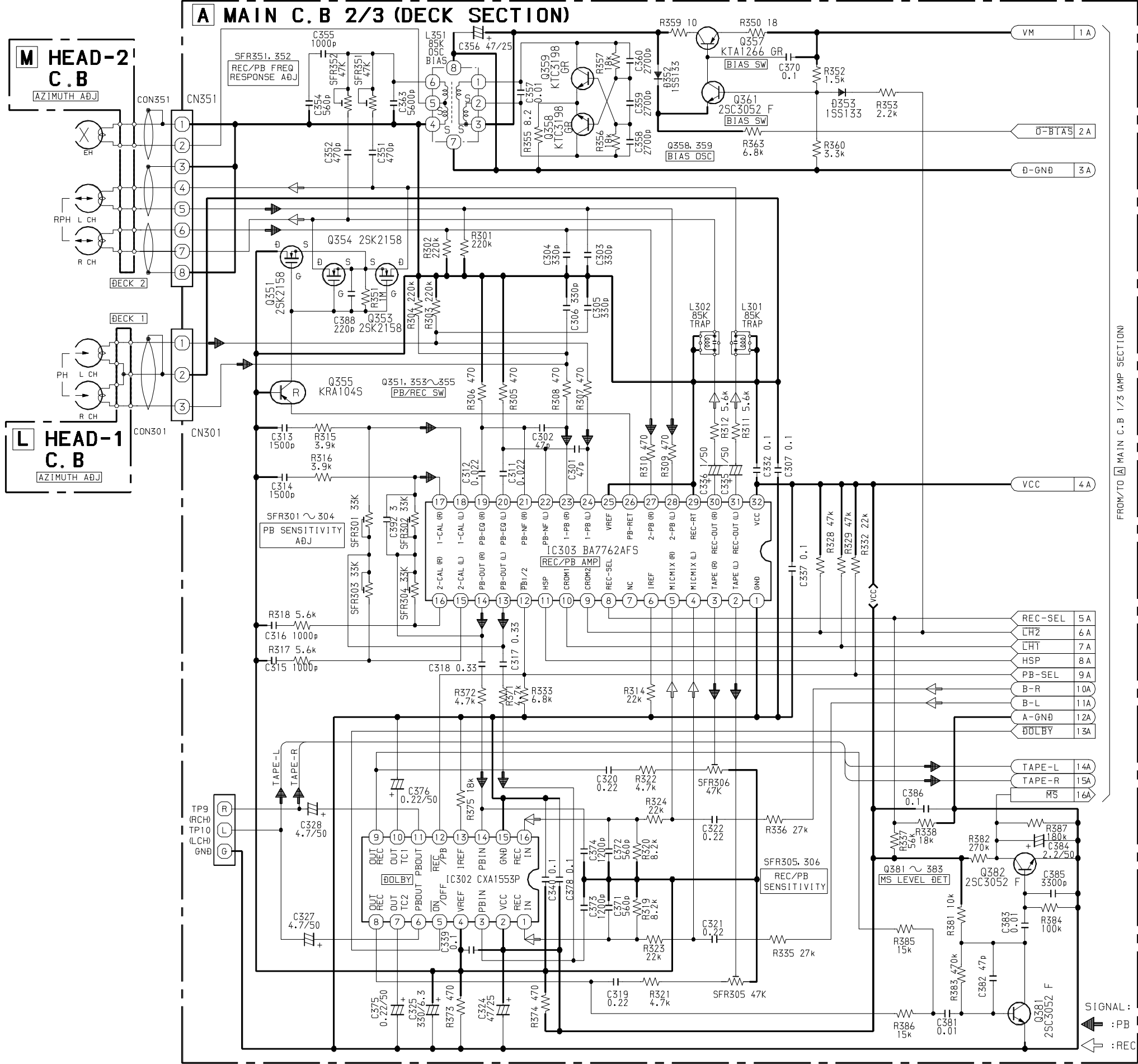


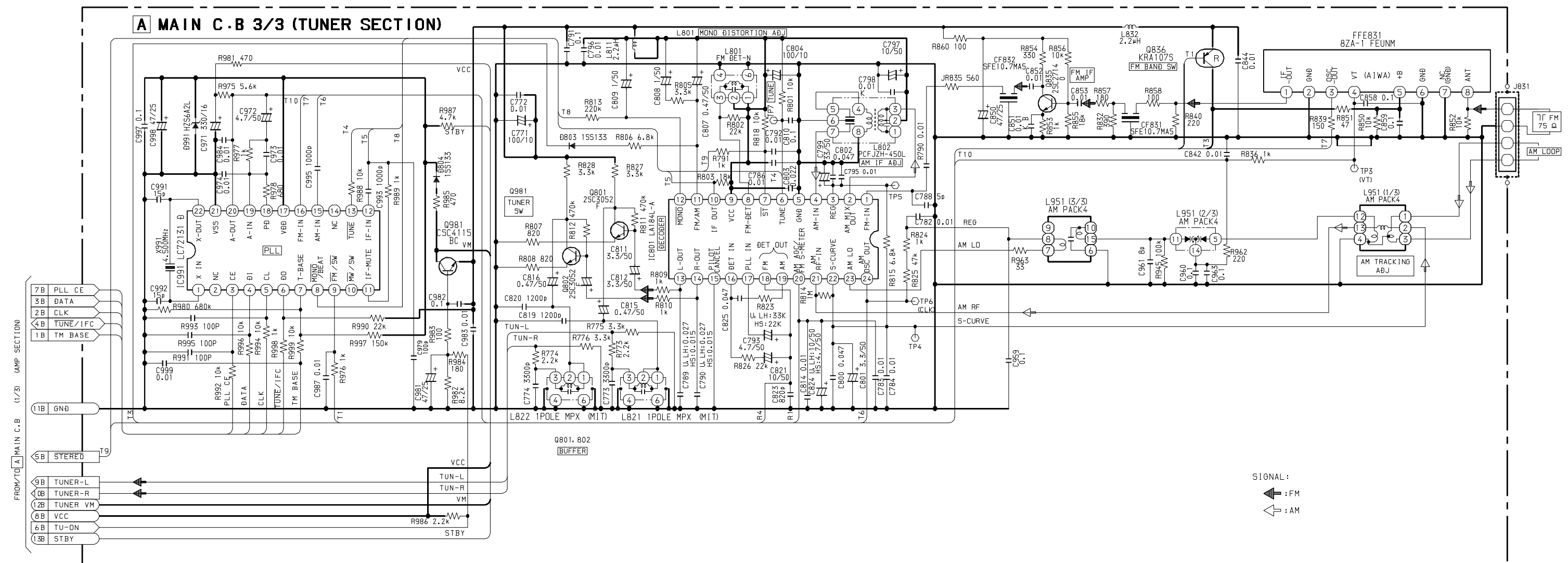


SCHEMATIC DIAGRAM - 1 (MAIN 1 / 3: AMP/ VM)

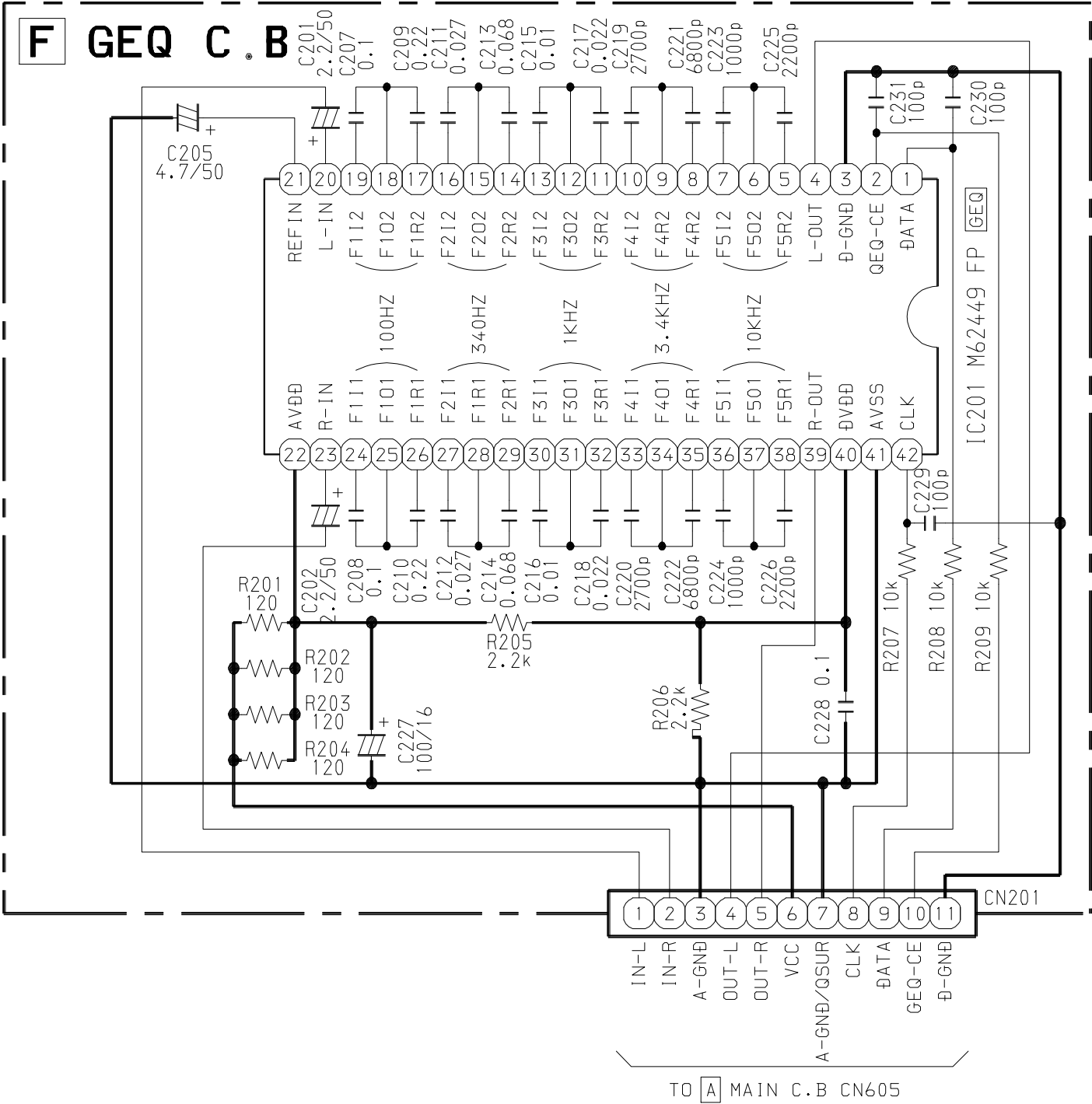


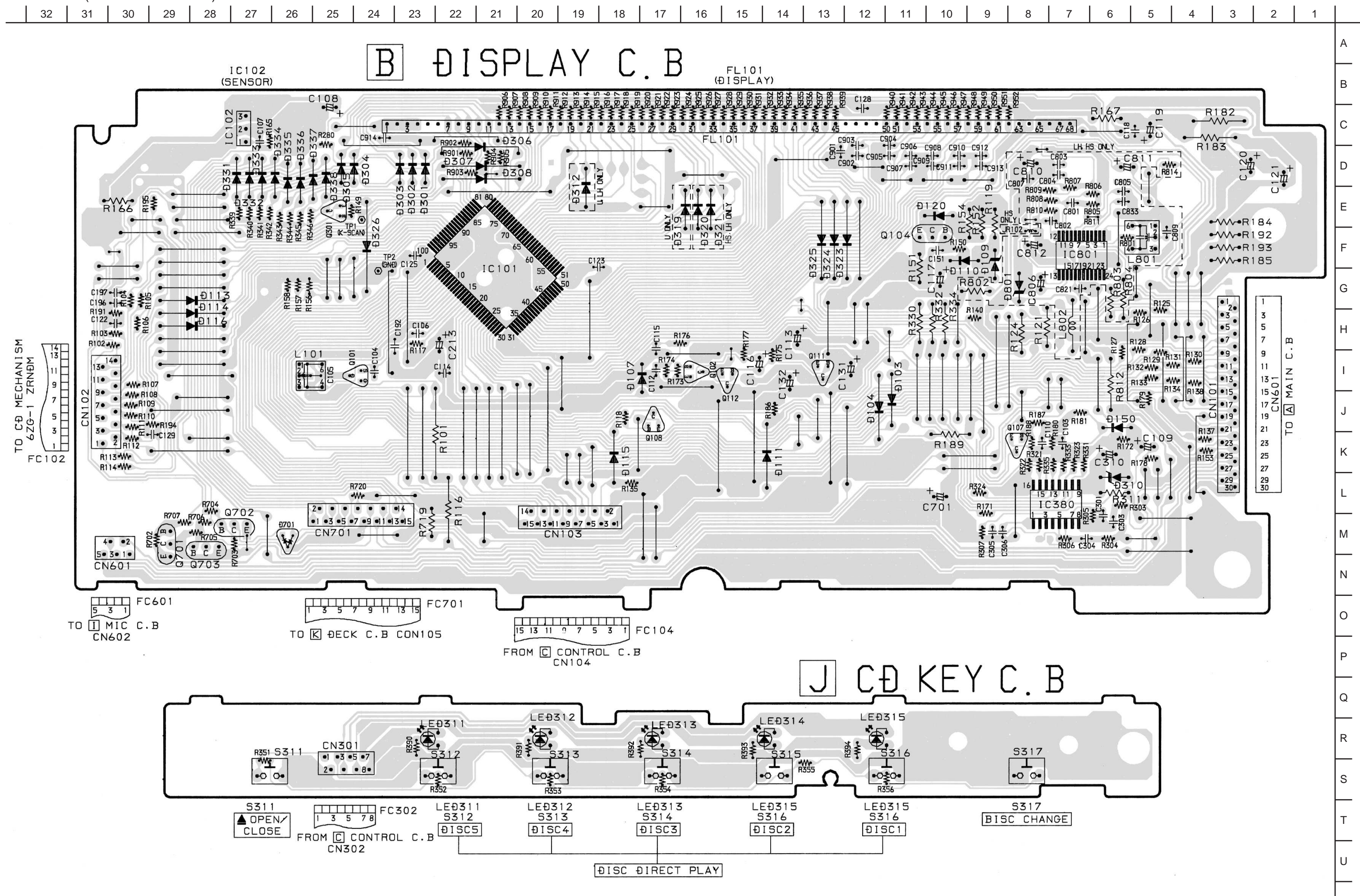
SCHEMATIC DIAGRAM - 2 (MAIN 2 / 3: DECK/ HEAD-1/ HEAD-2)



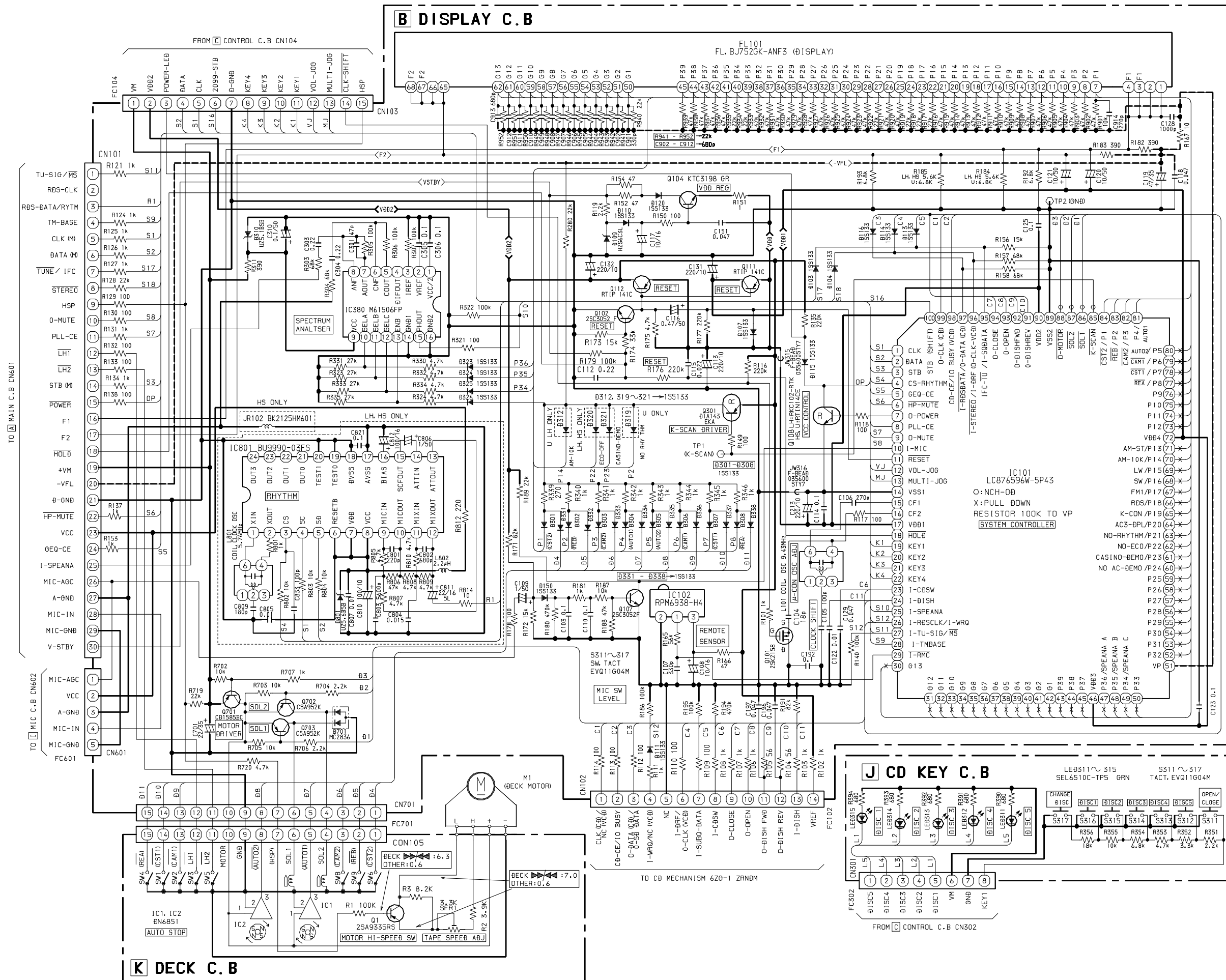
FROM/TO A MAIN C-B (1/3) (AMP SECTION)

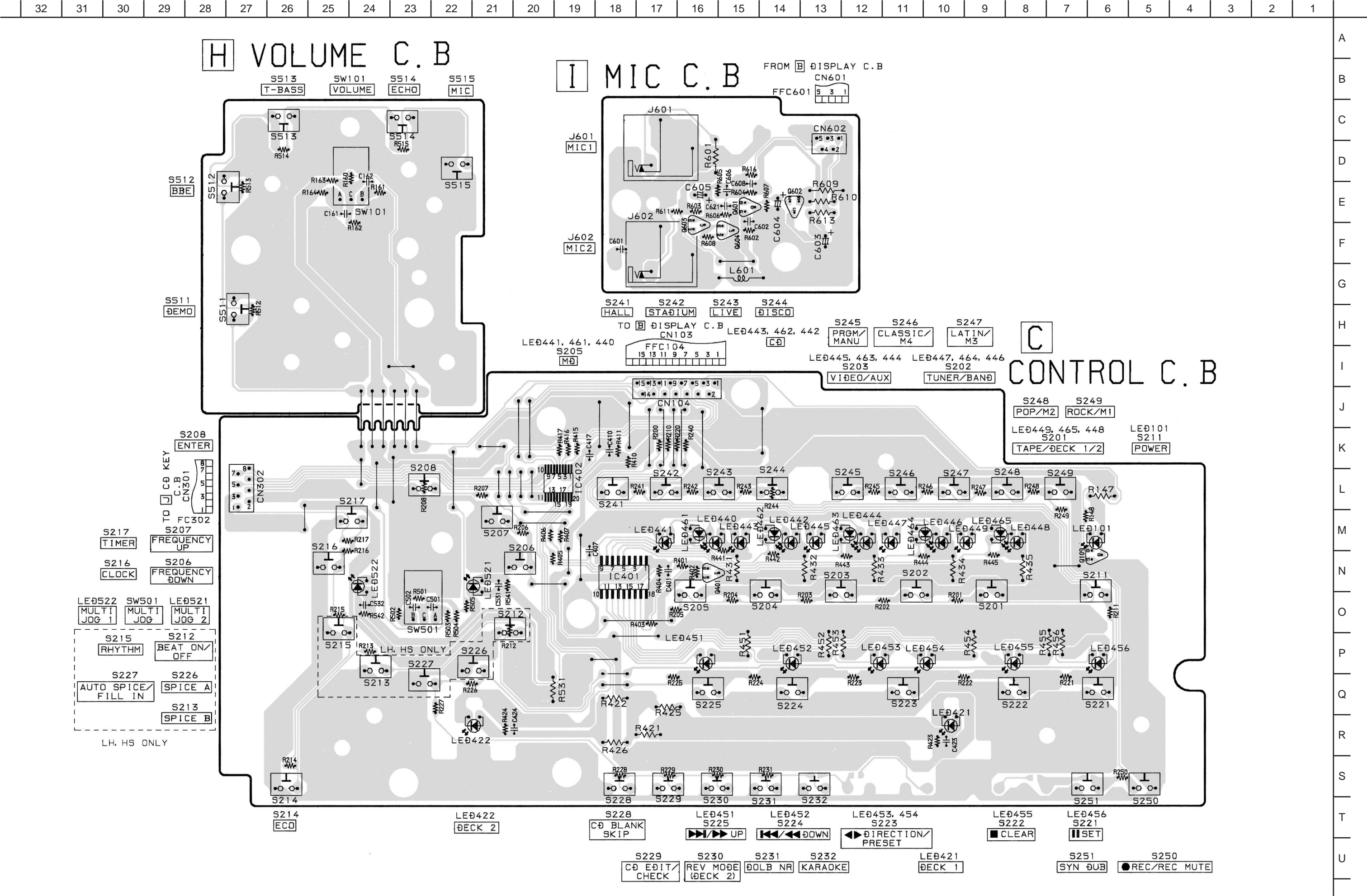
SCHEMATIC DIAGRAM-4 (GEQ)



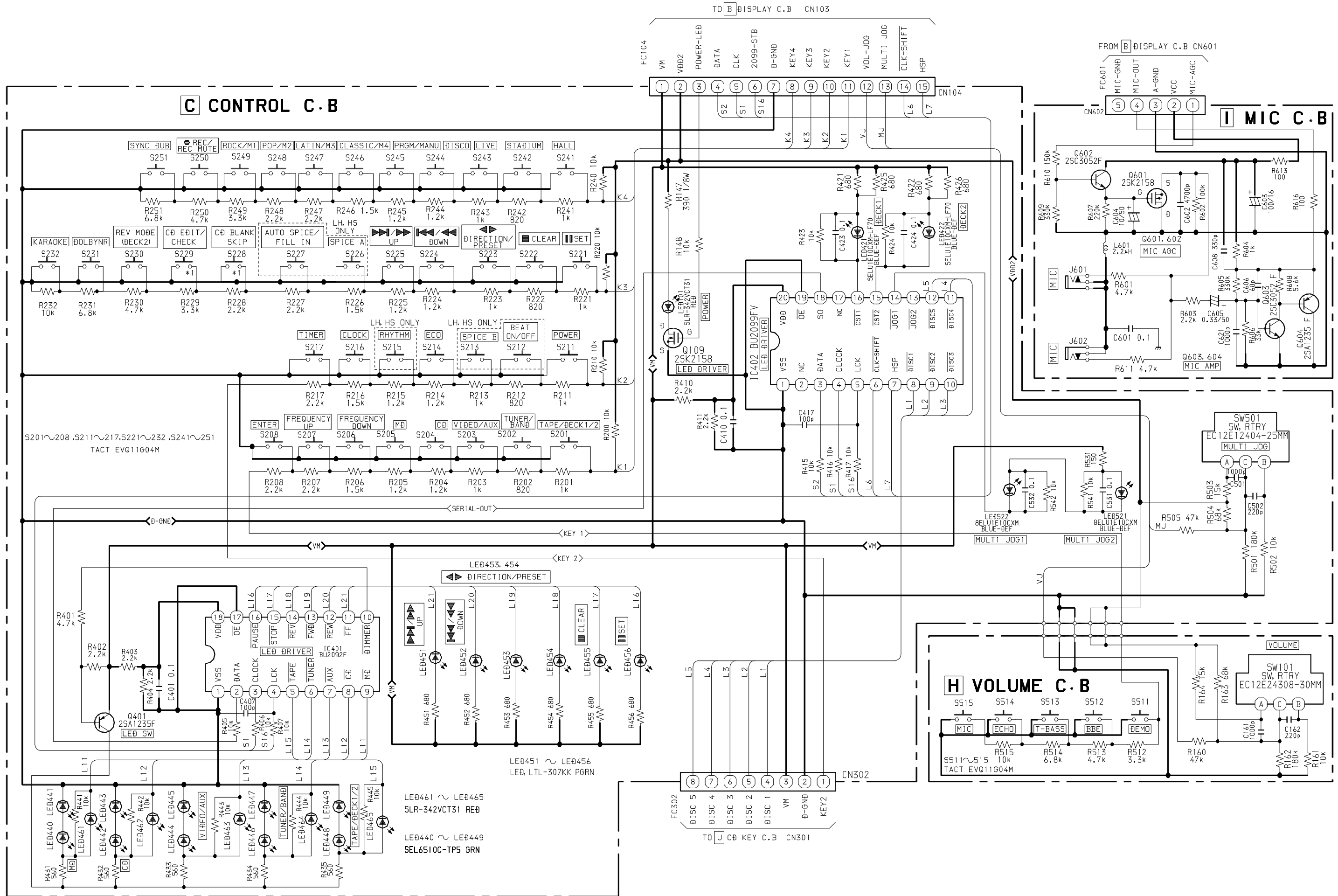


SCHEMATIC DIAGRAM - 5 (DISPLAY/ CD KEY/ DECK)



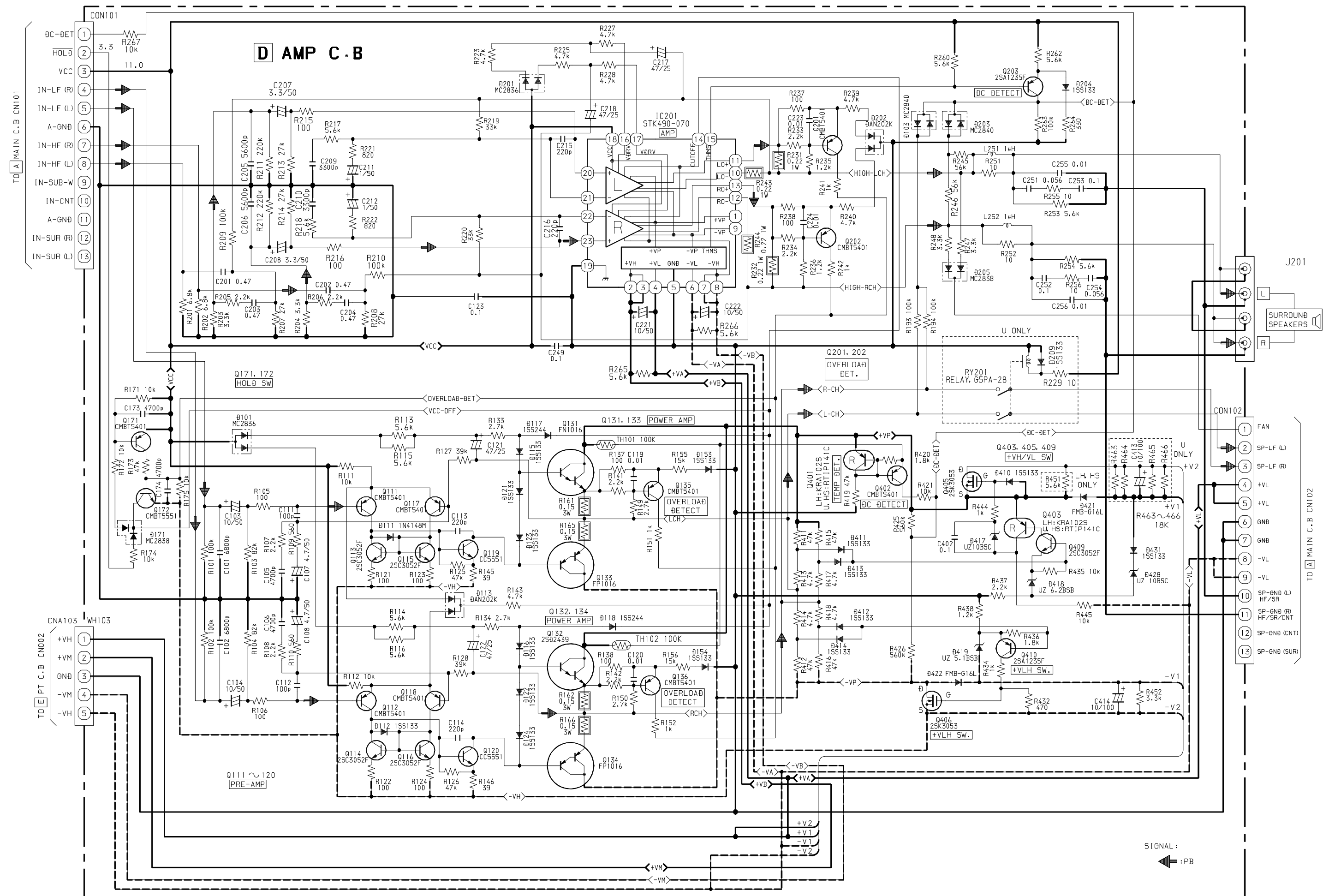


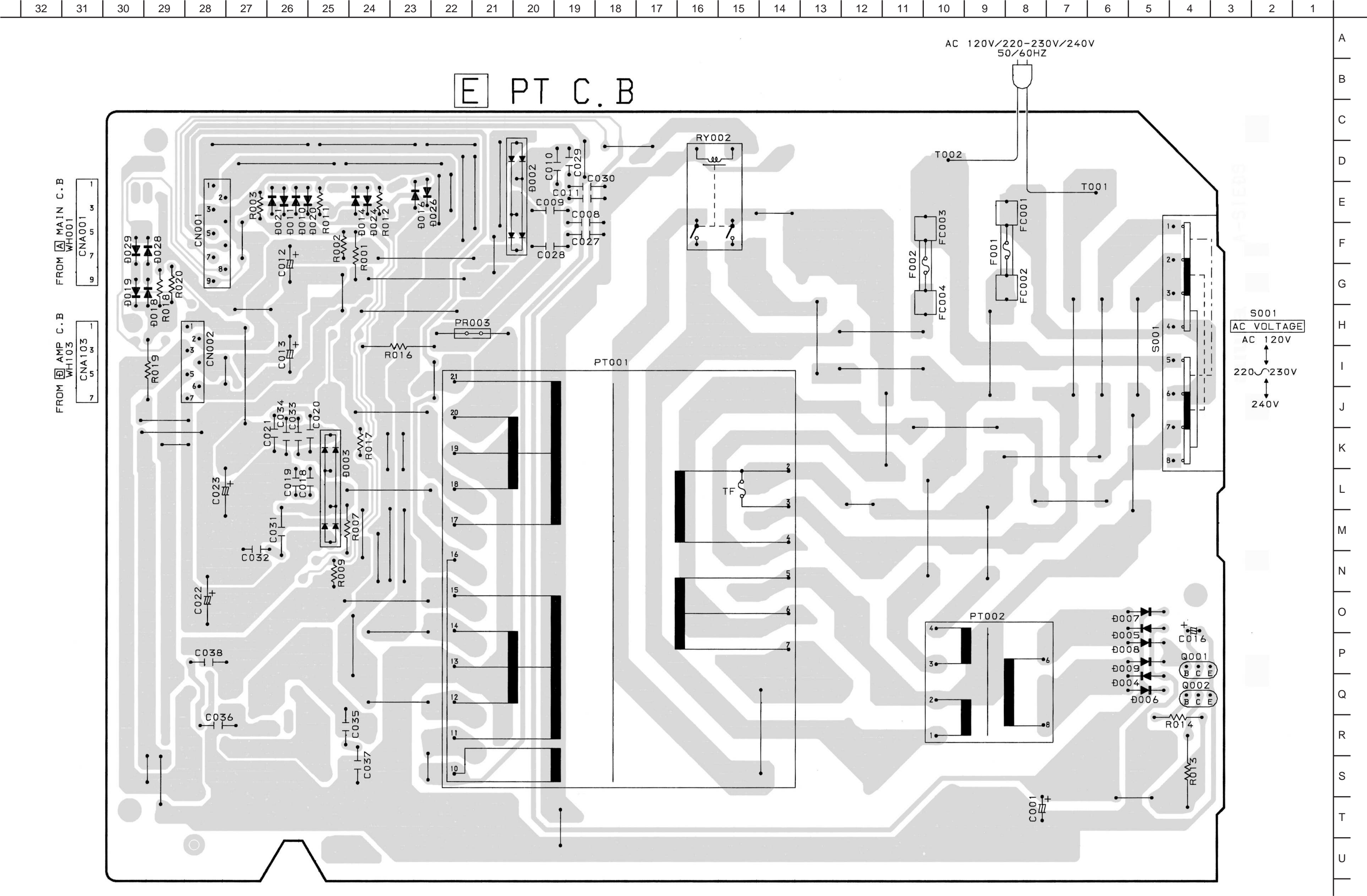
SCHEMATIC DIAGRAM - 6 (CONTROL/ VOLUME/ MIC)



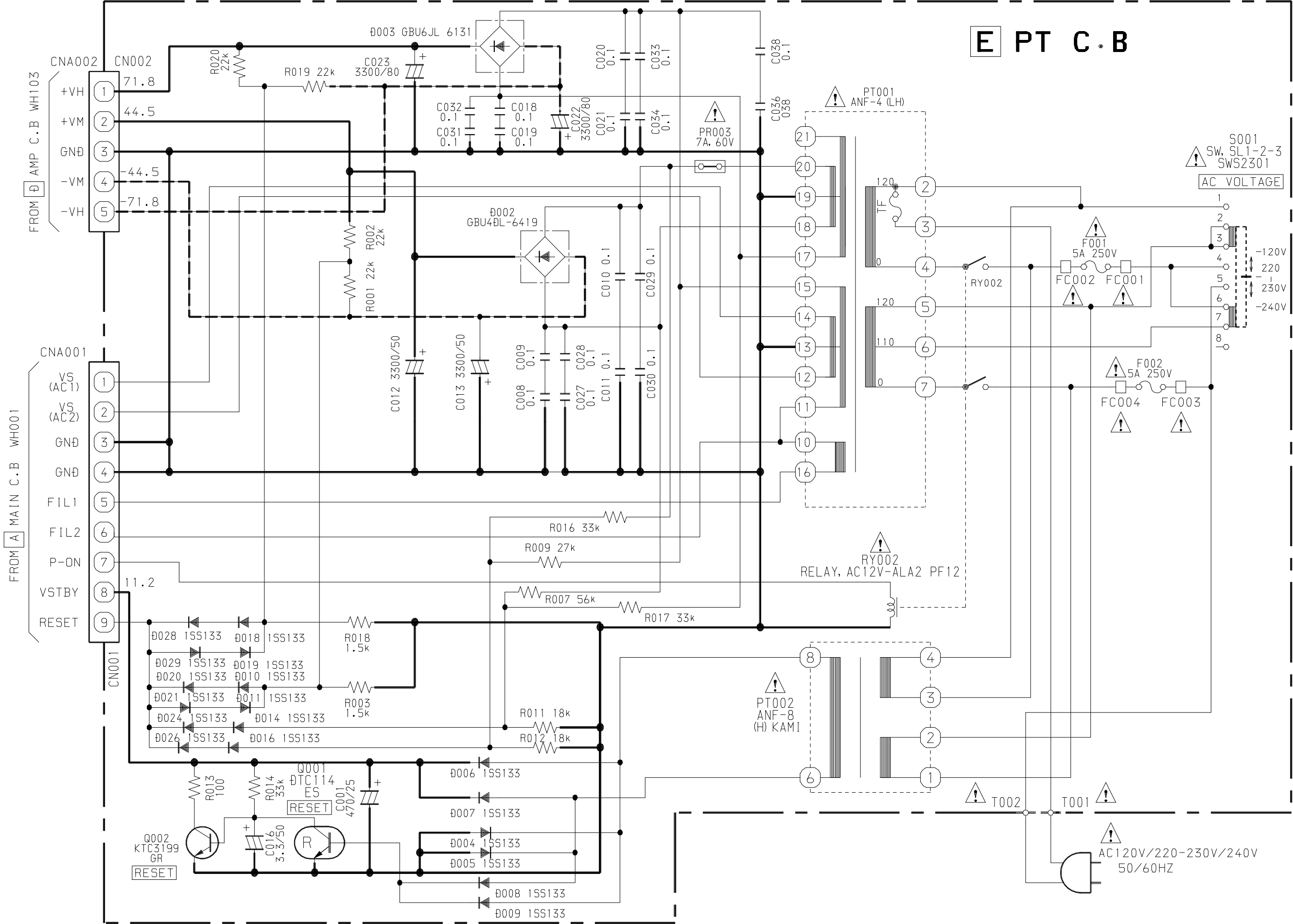


SCHEMATIC DIAGRAM - 7 (AMP)



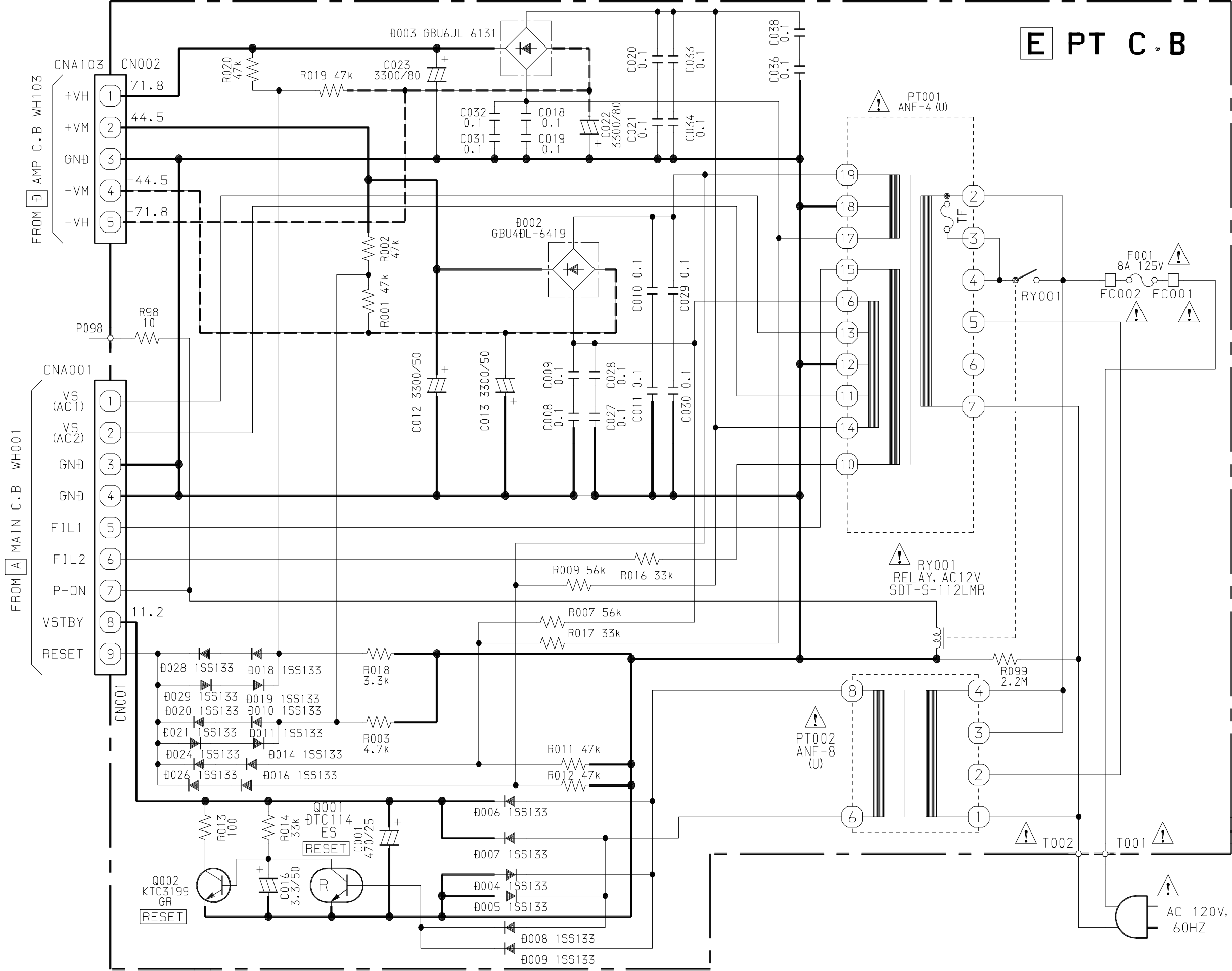


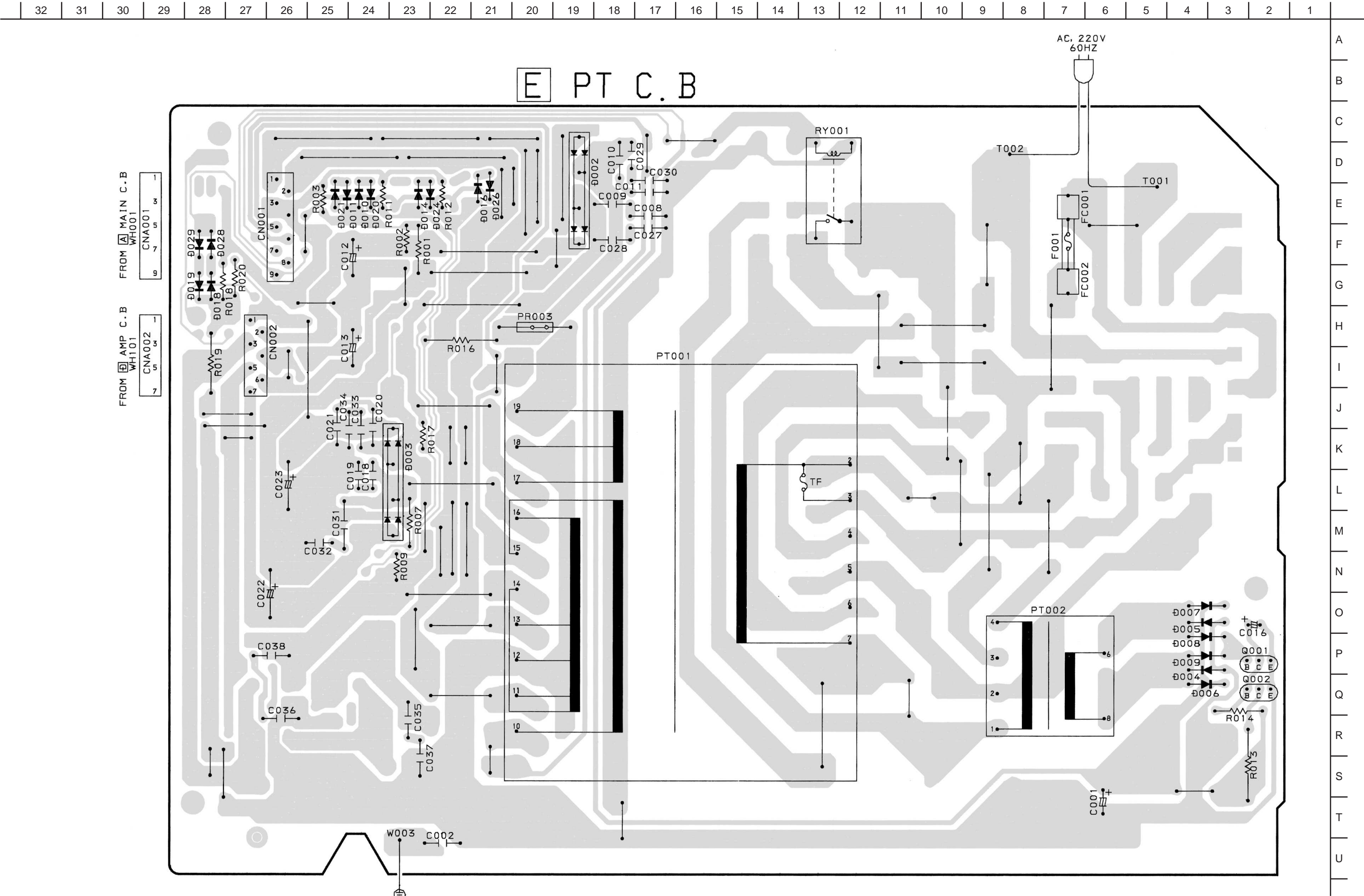
SCHEMATIC DIAGRAM - 8 (PT)<LH>

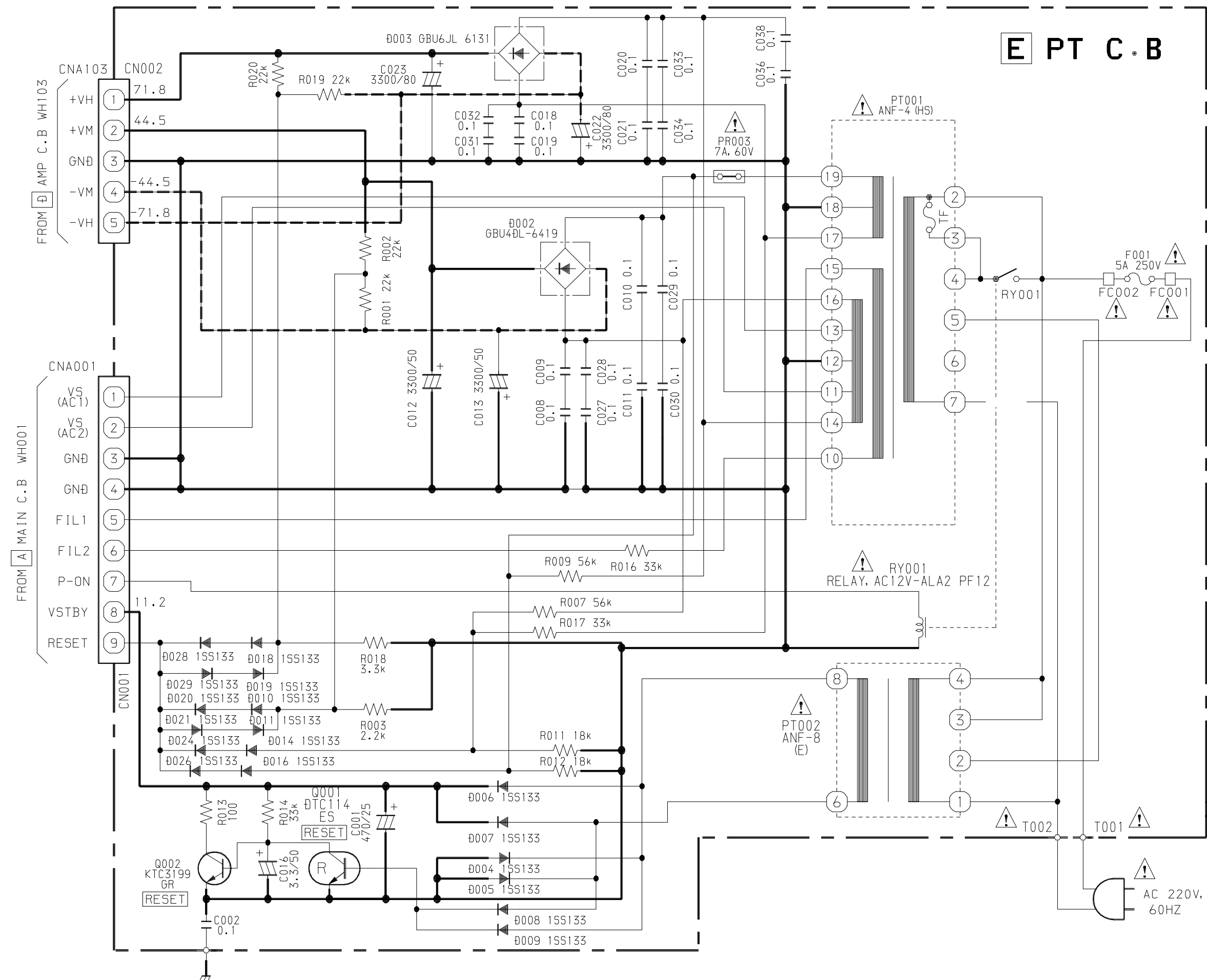




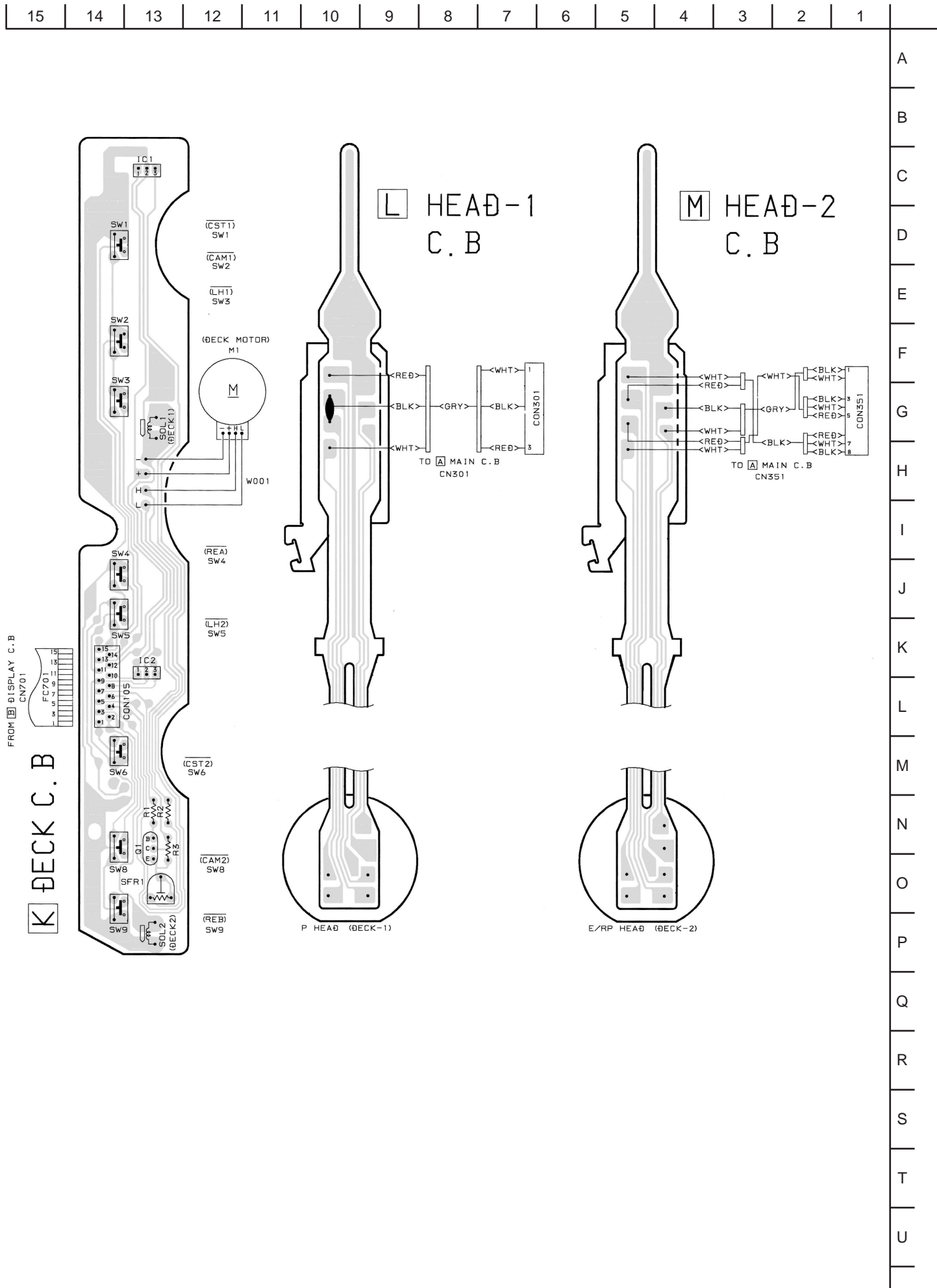
SCHEMATIC DIAGRAM - 9 (PT)<U>





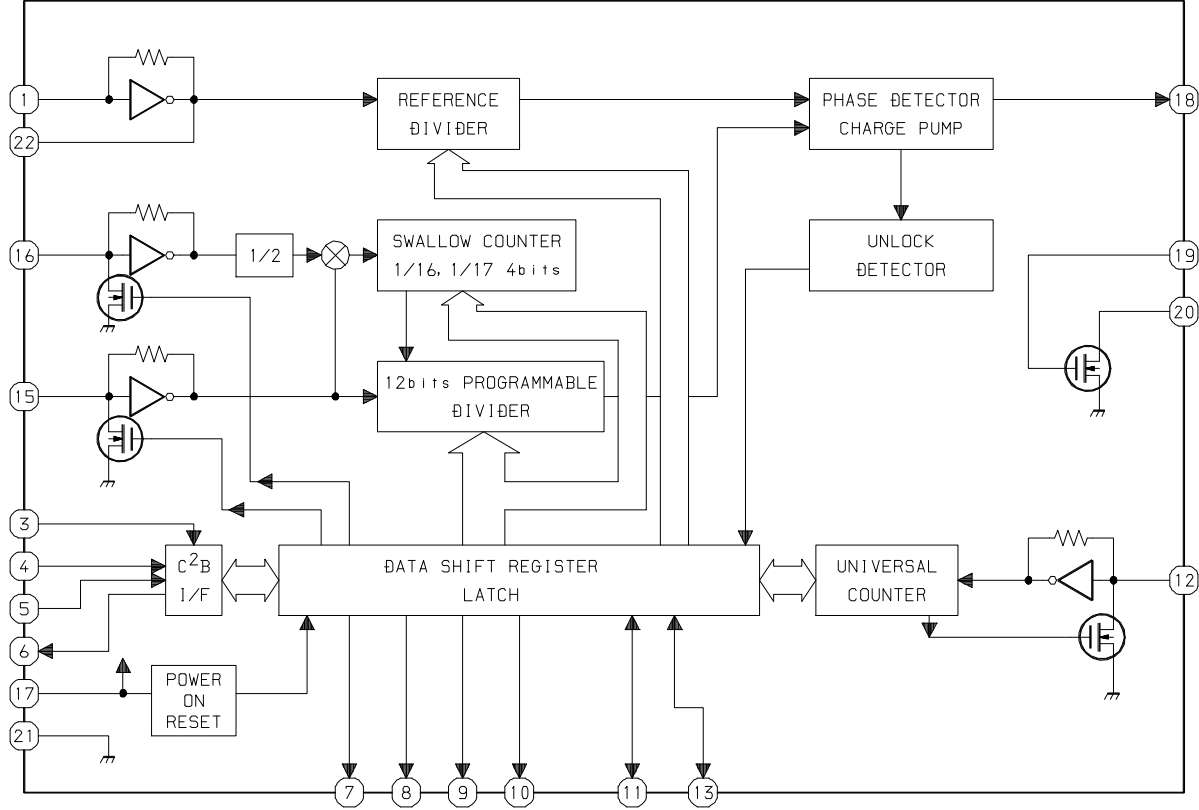


WIRING - 9 (DECK/ HEAD-1/ HEAD-2)

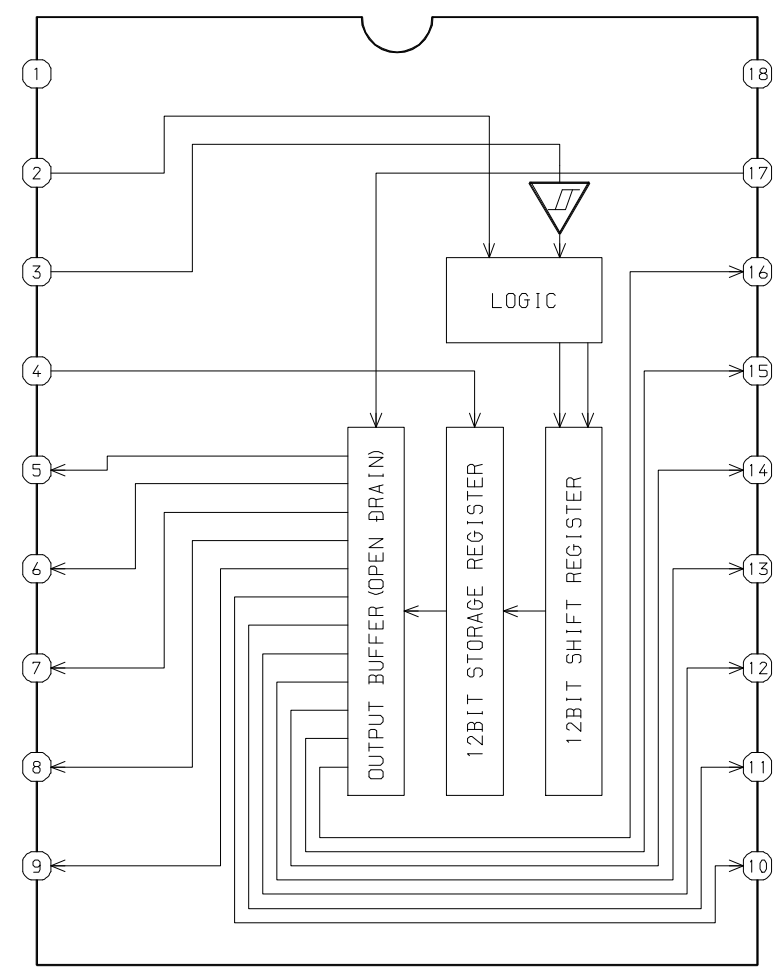


IC BLOCK DIAGRAM

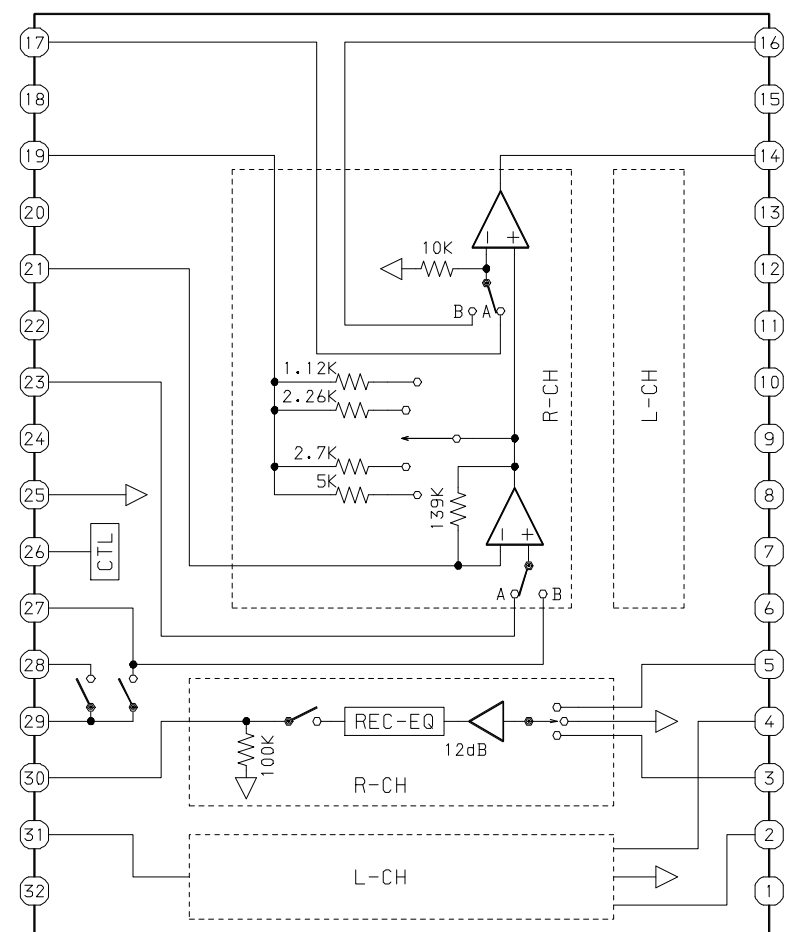
IC, LC72131D



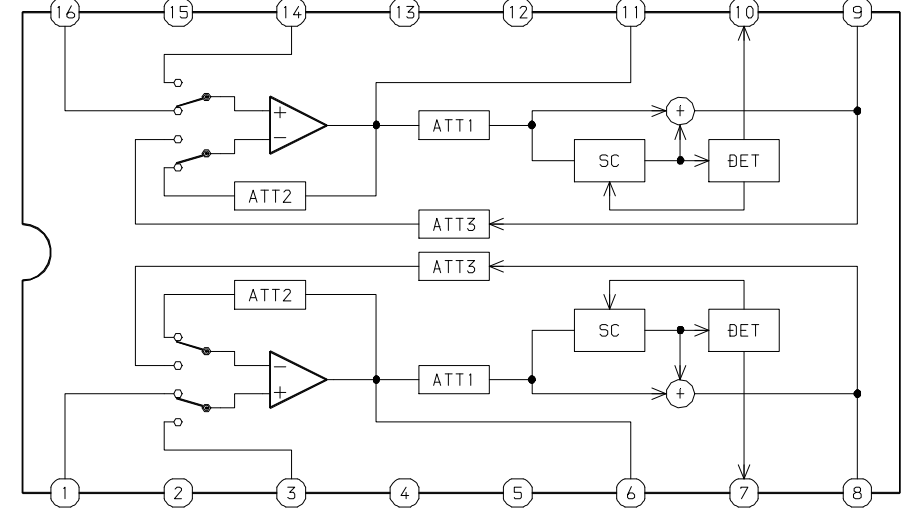
IC, BU2092F



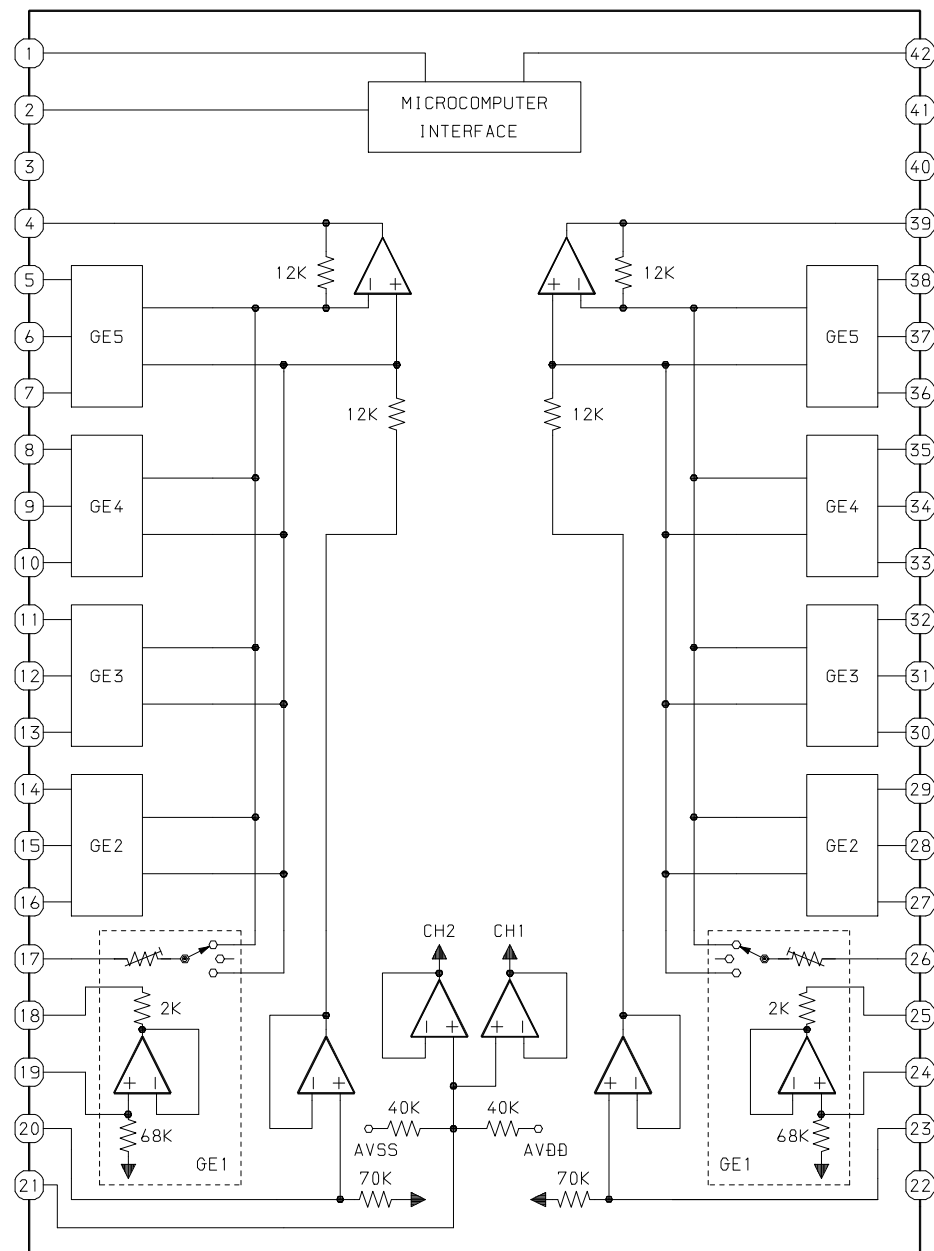
IC, BA7762AFS



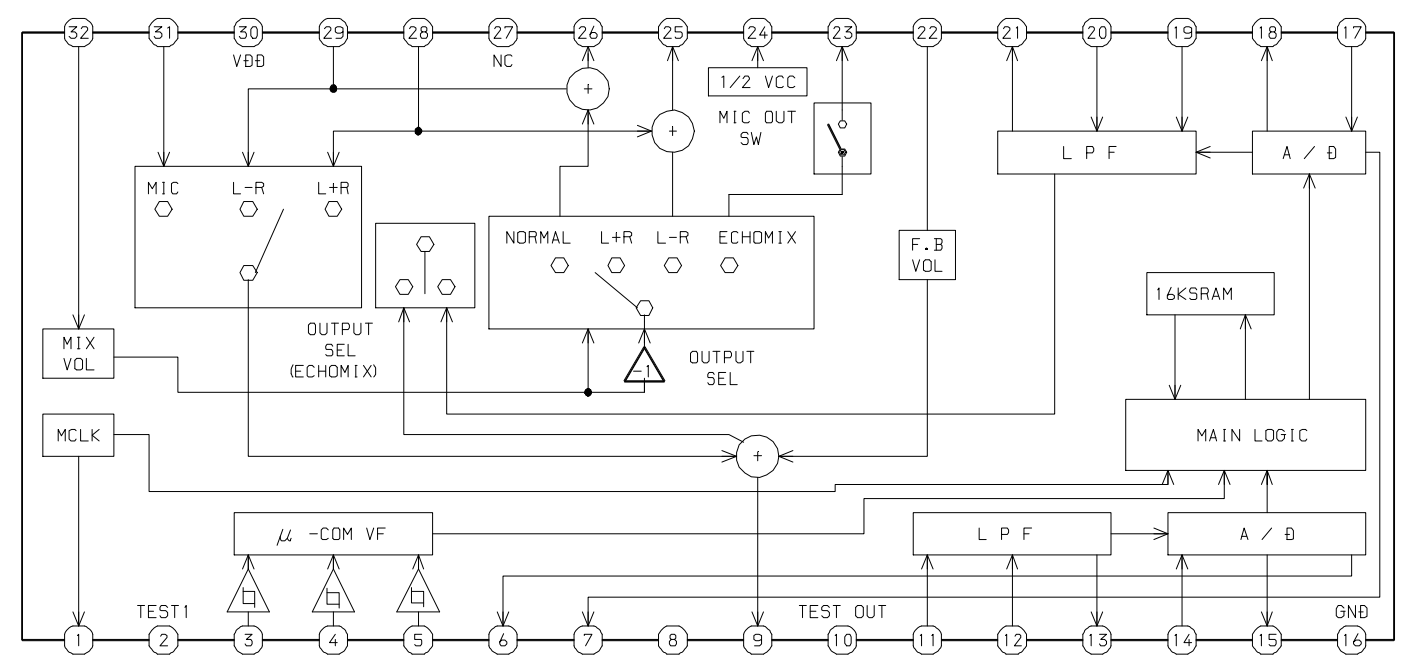
IC, CXA1553P



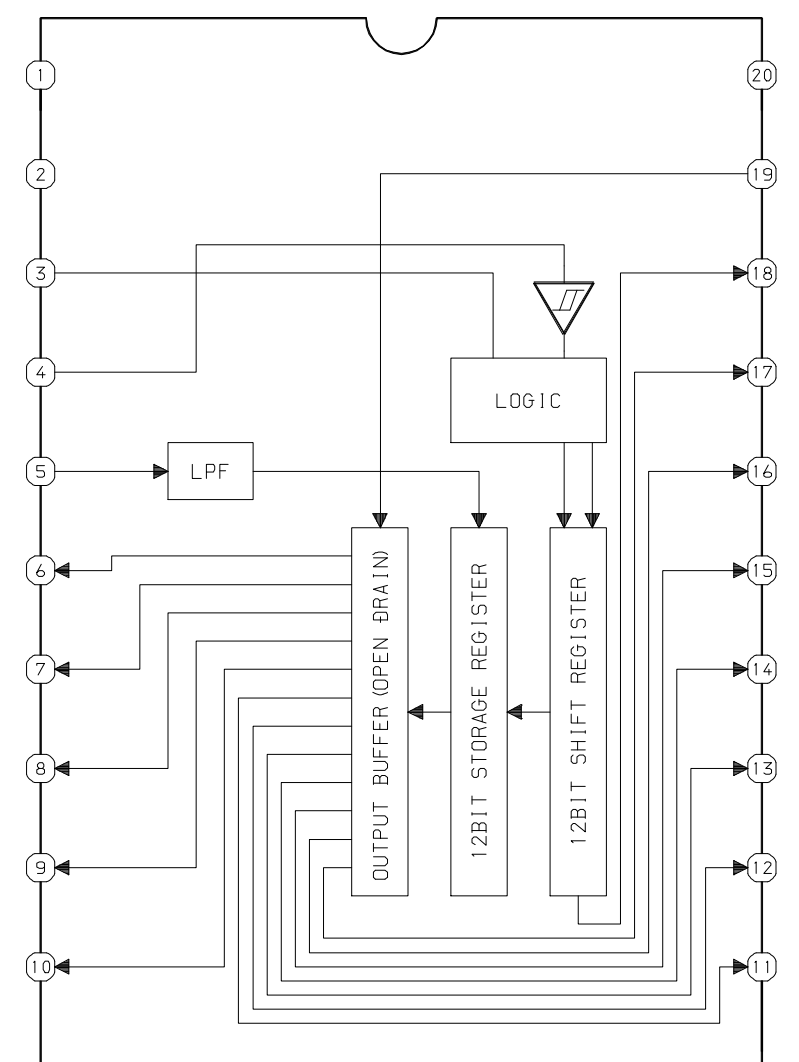
IC, M62449FP



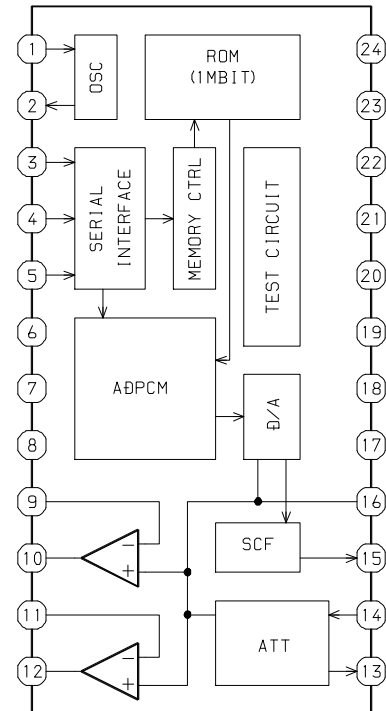
IC, M65849BFP631D



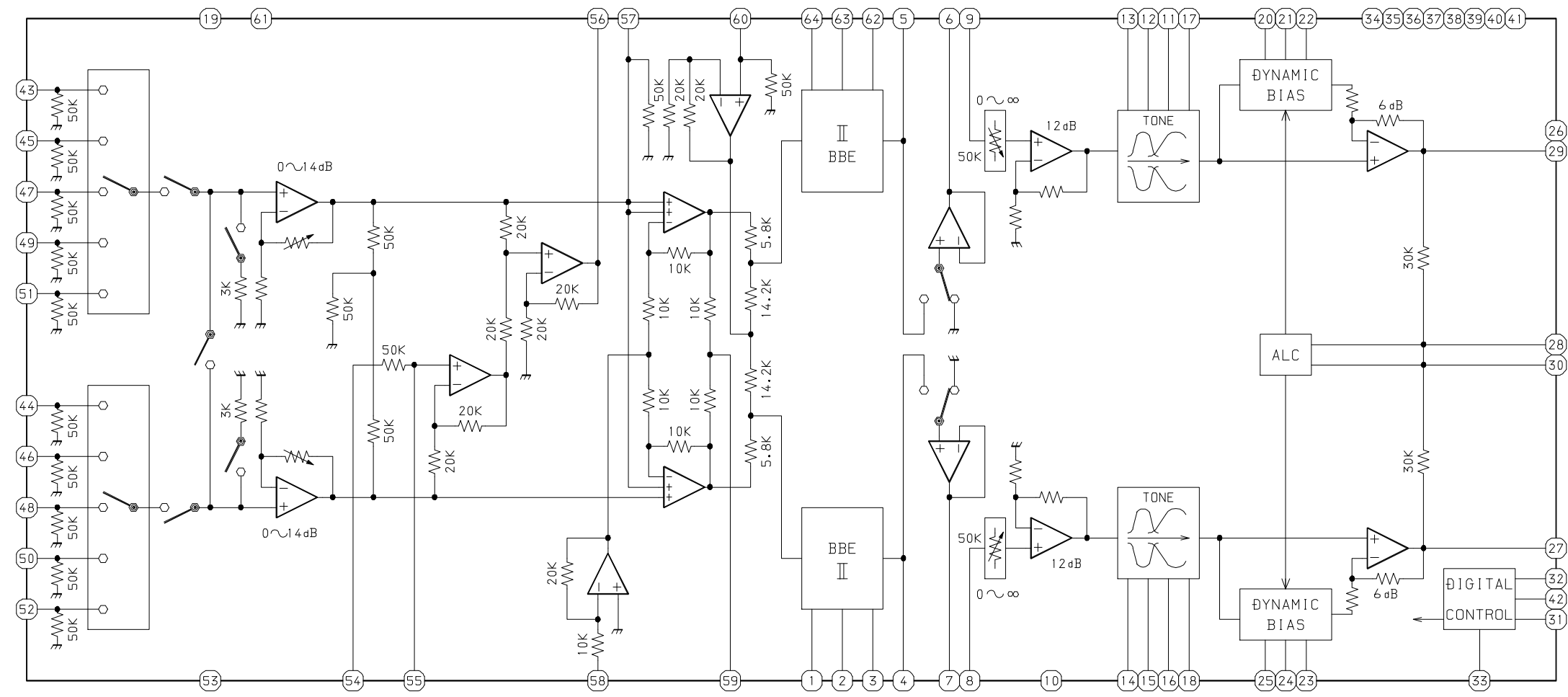
IC, BU2099FV



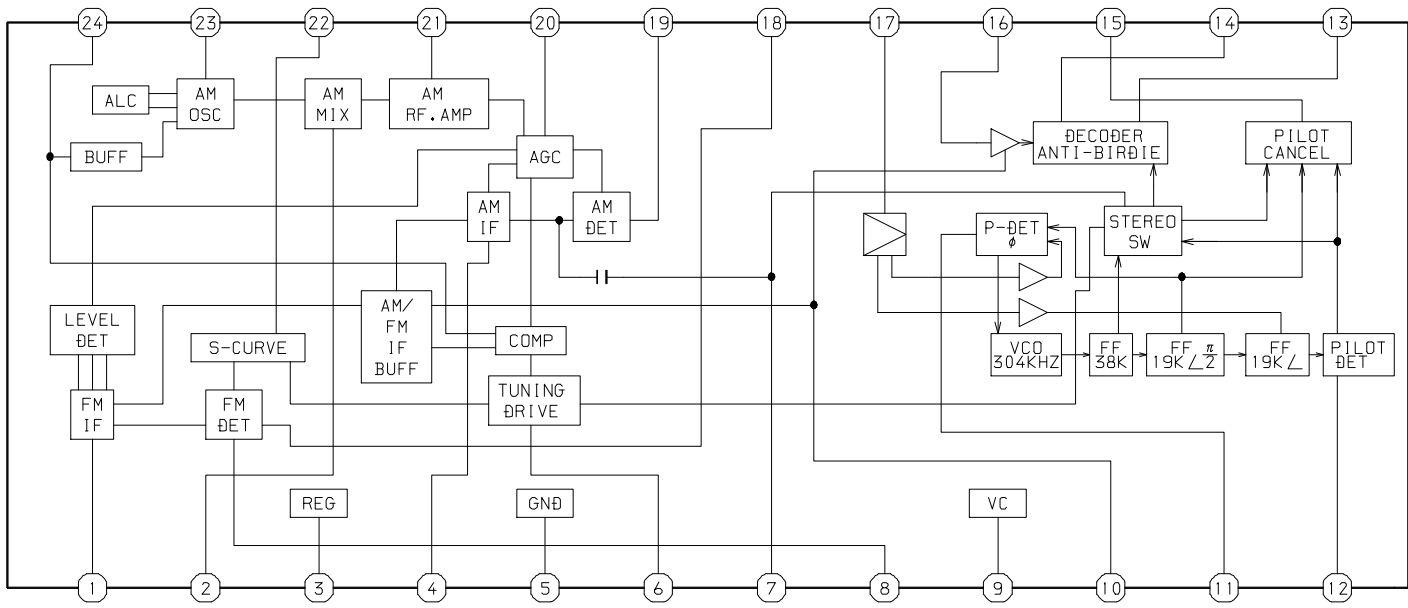
IC, BU9990-03FS



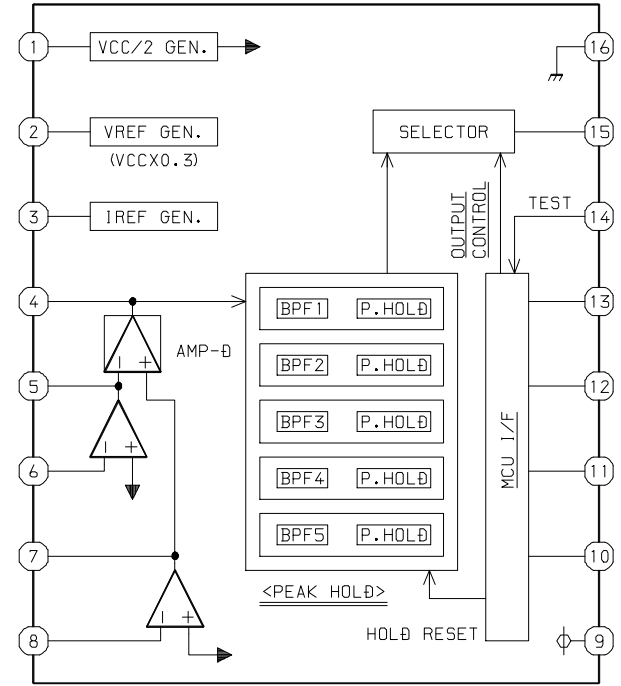
IC, B03876KS2



IC, LA1844L-A

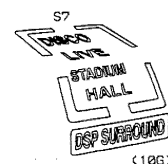
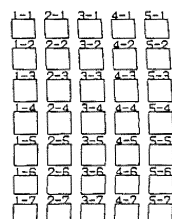
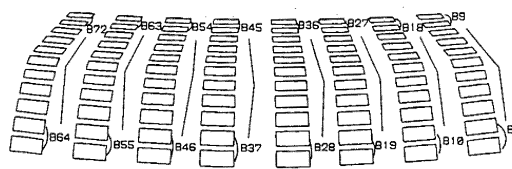
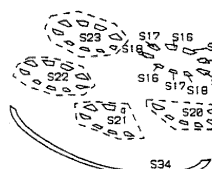
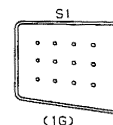
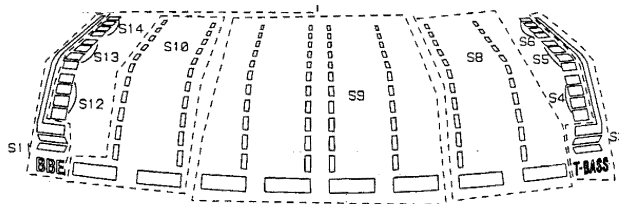
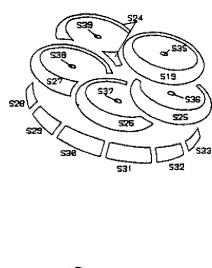
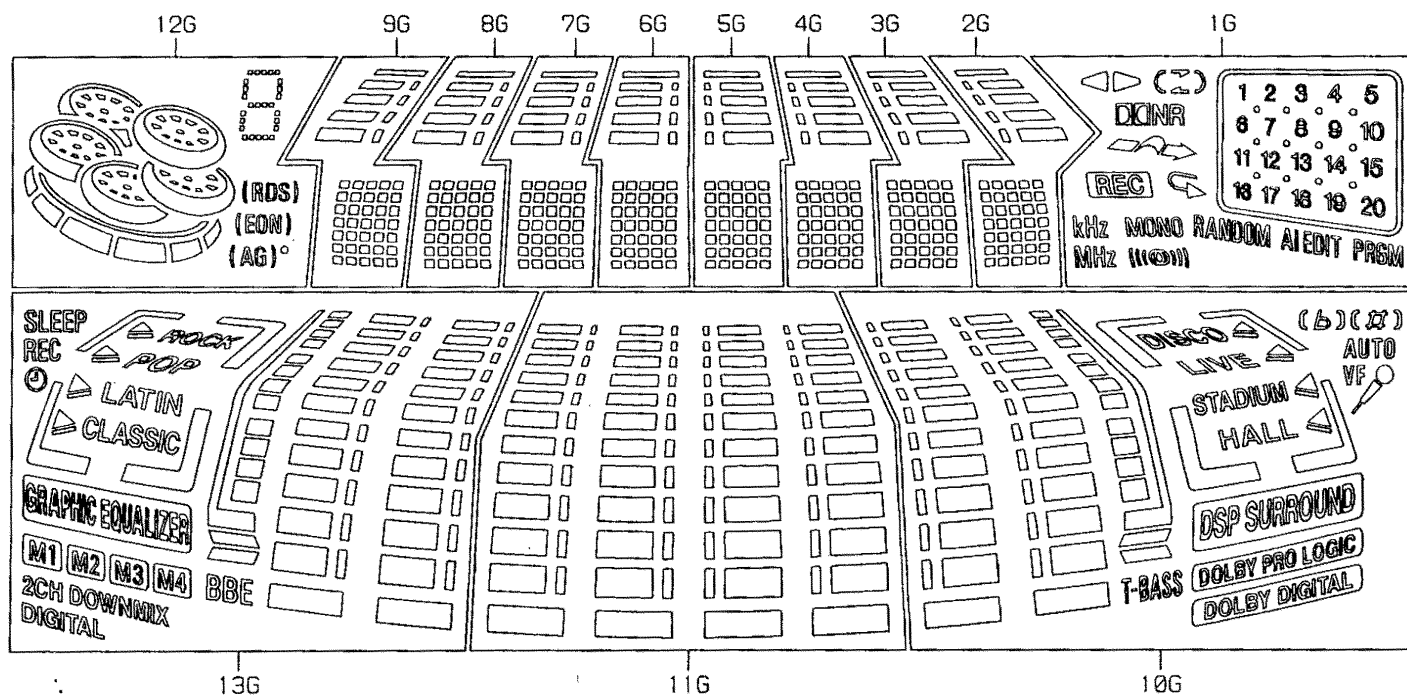


IC, M61506FP



FL (BJ752GK-ANF3) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	S10	○	S9	S8	5-7	S1
P2	B72	() (AG)	B54	B18	4-7	PRGM
P3	B63	AG	B45	B9	3-7	AI
P4	B71	() (EON)	B36	B17	2-7	EDIT
P5	B62	EON	B27	B8	1-7	RANDOM
P6	B70	() (RDS)	B53	B16	5-6	MONO
P7	B61	RDS	B44	B7	4-6	MONO
P8	B69	S33	B35	B15	3-6	MHz
P9	B60	S32	B26	B6	2-6	kHz
P10	B68	S31	B52	B14	1-6)
P11	B59	S30	B43	B5	5-5	1
P12	B67	S29	B34	B13	4-5	C
P13	B58	S28	B25	B4	3-5	↩
P14	B66	S34	B51	B12	2-5	⚡
P15	B57	S26	B42	B3	1-5	REC
P16	B65	S25	B33	B11	5-4	DOWN
P17	B56	S20	B24	B2	4-4	▶
P18	B64	S36	B50	B10	3-4	◀
P19	B55	S21	B41	B1	2-4	1
P20	S14	S37	B32	S6	1-4	2
P21	S13	S27	B23	S5	5-3	3
P22	S12	S22	B49	S4	4-3	4
P23	S11	S38	B40	S3	3-3	5
P24	S15	S24	B31	S7	2-3	6
P25	⏏ (ROCK)	S23	B22	⏏ (DISCO)	1-3	7
P26	⏏ (POP)	S39	B48	⏏ (LIVE)	5-2	8
P27	⏏ (LATIN)	S19	B39	⏏ (STADIUM)	4-2	9
P28	⏏ (CLASSIC)	S35	B30	⏏ (HALL)	3-2	10
P29	SLEEP	S16	B21	() (b)	2-2	11
P30	REC	S17	B47	() (#)	1-2	12
P31	Ⓢ	S18	B38	b &	5-1	13
P32	M1	d	B29	AUTO	4-1	14
P33	M2	e	B20	VF	3-1	15
P34	M3	c	B46	DOLBY PRO LOGIC	2-1	16
P35	M4	g	B37	DOLBY DIGITAL	1-1	17
P36	2CH DOWN MIX	f	B28	-	B73	18
P37	DIGITAL	b	B19	-	B74	19
P38	-	a	-	-	B75	20
P39	-	-	-	-	S2	-

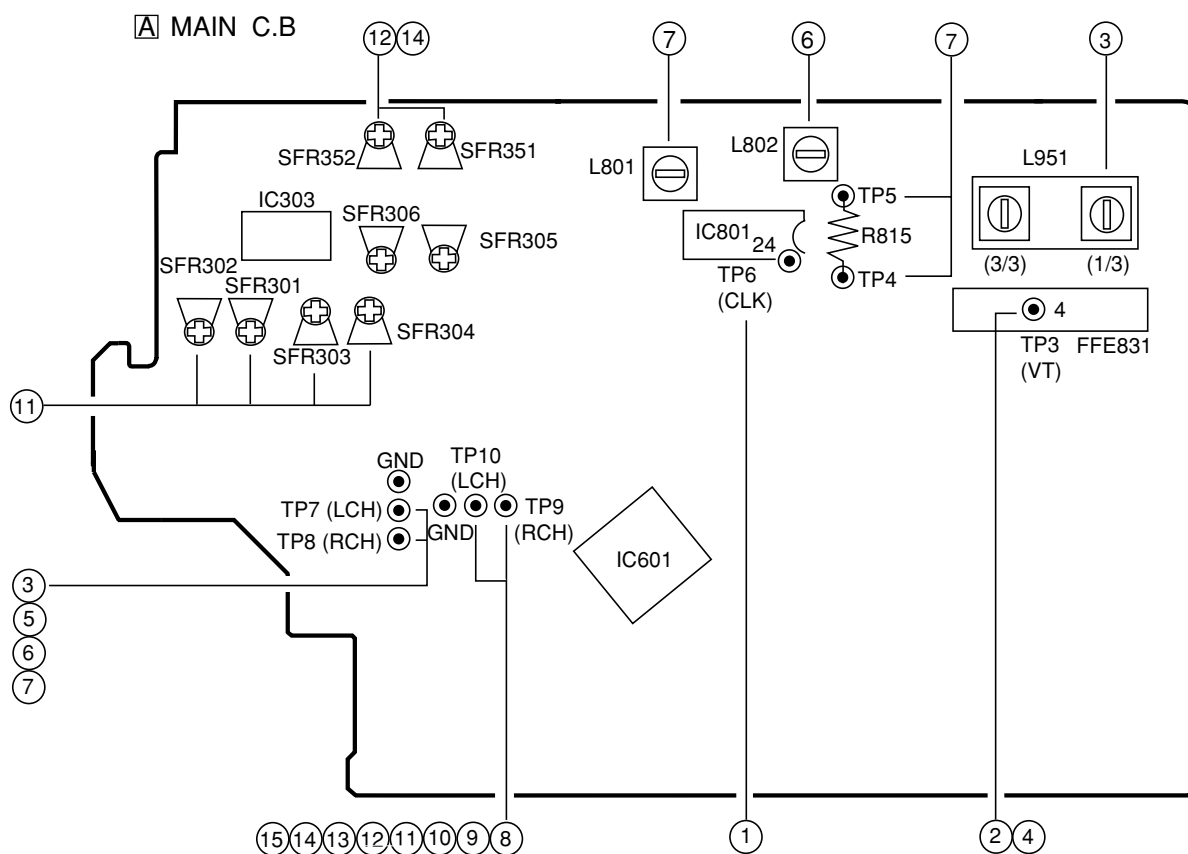
IC DESCRIPTION

IC, LC876596W-5P43

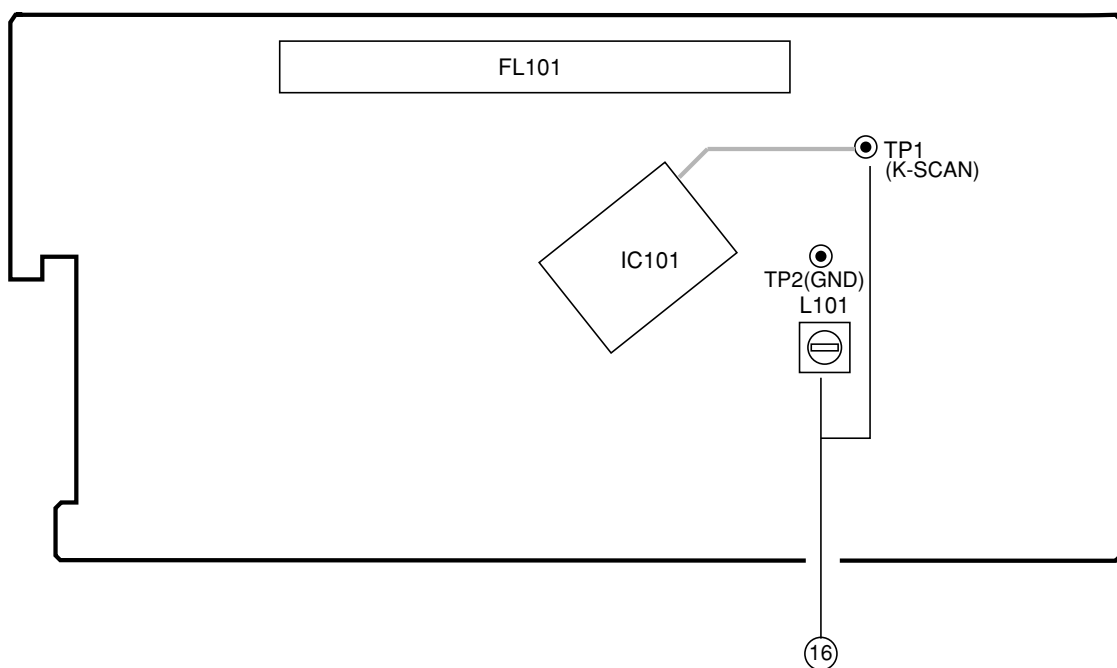
Pin No.	Pin Name	I/O	Description
1	CLK	O	Common serial CLOCK output.
2	DATA	O	Common Serial DATA output.
3	STB	O	Common serial STROBE output.
4	CS-RHYTHM	O	Rhythm IC chip select output.
5	GEQ-CE	O	GEQ IC chip enable output.
6	$\overline{\text{HP-MUTE}}$	I	Headphone plug-in detect input. (Output "L" at HOLD)
7	O-POWER	O	System power ON/ $\overline{\text{OFF}}$ output. (Active "H")
8	PLL-CE	O	Tuner PLL IC chip enable output.
9	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
10	I-MIC	I	Auto-VF MIC level special A/D input. (Output "L" at HOLD)
11	$\overline{\text{RESET}}$	I	Reset input.
12	VOL-JOG	I	Main volume JOG rotary encoder A/D input.
13	MULTI-JOG	I	MULTI JOG rotary encoder A/D input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	$\overline{\text{HOLD}}$	I	Power supply voltage detect A/D input.
19 ~ 22	KEY 1 ~ 4	I	KEY 1 ~ 4 A/D input. (Output "L" at HOLD)
23	I-CDSW	I	CD mechanism SW A/D input. (Output "L" at HOLD)
24	I-DISH	I	CD turntable photo sensor A/D input. (Output "L" at HOLD)
25	I-SPEANA	I	SPEANA level A/D input. (Output "L" at HOLD)
26	I-RDCLK/I-WRQ	I	TUNER RDS IC CLK input(not used) / CD WRQ input. (Output "L" at HOLD&INI)
27	I-TU-SIG/ $\overline{\text{MS}}$	I	Tuner tuning signal level A/D input / Deck MS SENS. (Output "L" at HOLD)
28	I-TMBASE	I	Timebase clock (8Hz) input. (Output "L" at HOLD)
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L". (Output "L" at HOLD)
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P39 ~ P37	O	FL segment P39 ~ P37 output.
46	VDD3	–	Power supply.
47	P36/SPEANA A	O	FL segment P36 output / SPEANA band select output (A) .
48	P35/SPEANA B	O	FL segment P35 output / SPEANA band select output (B) .
49	P34/SPEANA C	O	FL segment P34 output / SPEANA band select output (C).
50	P33	O	FL segment P33 output.
51	VP	–	Power supply for FL.
52 ~ 59	P32 ~ P25	O	FL segment P32~ P25 output.
60	P24/NO AC-DEMO	I/O	FL segment P24 output / NO AC-DEMO at AC-IN diode input. (No store DEMO mode.)
61	P23/CASINO-DEMO	I/O	FL segment P23 output / CASINO-DEMO select diode input.
62	P22/NO-ECO	I/O	FL segment P22 output / NO-ECO select input.
63	P21/NO-RHYTHM	I/O	FL segment P21 output / NO-RHYTHM select diode input(not used).
64	P20/AC3-DPL	I/O	FL segment P20 output / AC3-DPL select diode input(not used).

Pin No.	Pin Name	I/O	Description
65	P19/K-CON	I/O	FL segment P19 output / K-CON select diode input(not used).
66	P18/RDS	I/O	FL segment P18 output / RDS select diode input(not used).
67	P17/FM1	I/O	FL segment P17 output / FM1 select diode input(not used).
68	P16/SW	I/O	FL segment P16 output / SW step initial diode input(not used).
69	P15/LW	I/O	FL segment P15output / LW stereo select diode input(not used).
70	P14/AM-10K	I/O	FL segment P14 output /AM-10K select diode input(U,LH).
71	P13/AM-ST	I/O	FL segment P13 output / AM-ST select diode input(not used).
72	VDD4	–	Power supply.
73~76	P12~P9	O	FL segment P12~P9 output.
77	P8/ $\overline{\text{RE}}\text{A}$	I/O	FL segment P8 ouput / REC enable (A) switch input (active: "L").
78	P7/ $\overline{\text{CST}}1$	I/O	FL segment P7 output / Cassette (1) switch.
79	P6/ $\overline{\text{CAM}}1$	I/O	FL segment P6 output / CAM (1) switch input (active: "L").
80	P5/AUTO2	I/O	FL segment P5 output / Auto stop reel (2) pulse input.
81	P4/AUTO1	I/O	FL segment P4 output / Auto stop reel (1) pulse input.
82	P3/ $\overline{\text{CAM}}2$	I/O	FL segment P3 output / CAM (2) switch input. (active:"L").
83	P2/ $\overline{\text{RE}}\text{B}$	I/O	FL segment P2 output / REC enable (B) switch input. (active:"L").
84	P1/ $\overline{\text{CST}}2$	I/O	FL segment P1 output / Cassette (2) switch input. (active:"L").
85	$\overline{\text{K-SCAN}}$	O	Key scan output. (active:"L").
86	$\overline{\text{SOL}}1$	O	DECK (1) solenoid $\overline{\text{ON}}$ /OFF output.
87	$\overline{\text{SOL}}2$	O	DECK (2) solenoid $\overline{\text{ON}}$ /OFF output.
88	$\overline{\text{O-MOTOR}}$	O	Deck motor $\overline{\text{ON}}$ /OFF output .
89	VSS2	–	Connected to GND.
90	VDD2	–	Power supply.
91	O-DISHREV	O	CD turn table dish reverse output.
92	O-DISHFWD	O	CD turn table dish forward output.
93	O-OPEN	O	CD tray open output.
94	O-CLOSE	O	CD tray close output.
95	IFC- $\overline{\text{TU}}$ /I-SQDATA	I	Tuner tune/IF count input (active: "L") / CD SUB-Q data input.
96	$\overline{\text{I-STEREO}}$ /I-DRF (O-CLK-VCD)	I/O	Tuner stereo detect input (active "L") / DRF input.
97	O-DATA(CD)/ I-RDS DATA	I/O	CD IC control data output / Tuner RDS data input(not used).
98	CD-CE/ IO BUSY (VCD)	I/O	CD chip enable output.
99	CLK (CD)	O	CD IC control clock output.
100	STB(SHIFT)	O	Shift register strobe output.

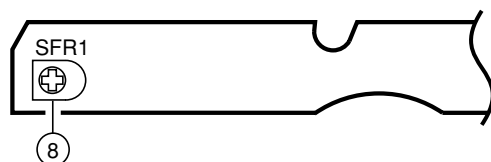
ADJUSTMENT <TUNER/DECK>



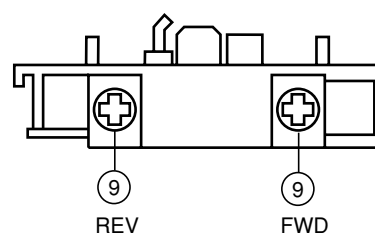
B DISPLAY C.B



K DECK C.B



DECK-1 P,DECK-2 R/P/E HEAD



< TUNER SECTION >

1. Clock Frequency Check
 Settings : • Test point : TP6 (CLK)
 Method : Set to AM 1710kHz<U,LH>, 1602kHz<HS> and check that the test point is 2160kHz \pm 45Hz <U,LH>, 2052kHz \pm 45Hz<HS> .
2. AM VT Check
 Settings : • Test point : TP3 (VT)
 Method : Set to AM 1710kHz<U,LH>, 1602kHz<HS> and AM 530kHz<U,LH>, 531kHz<HS> and check that the test point is less than 8.5V (1710kHz)<U,LH>, 8.0V(1692kHz)<HS> and more than 0.6V(530kHz,531kHz)
3. AM Tracking Adjustment
 Settings : • Test point : TP7(Lch), TP8(Rch)
 • Adjustment location : L951(1/3)..... 999kHz
 Method : Set to AM 999kHz and adjust L951(1/3) so that the test point is max.
4. FM VT Check
 Settings : • Test point : TP3 (VT)
 Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
 Set to FM 87.5MHz and check that the test point is more than 0.5V.
5. FM Tracking Check
 Settings : • Test point : TP7(Lch), TP8(Rch)
 Method : Set to FM 98.0MHz and check that the test point is less than 9.0dB μ V<U,LH>, 13dB μ V<HS>.
6. AM IF Adjustment
 Settings : • Test point : TP7(Lch), TP8(Rch)
 • Adjustment location : L802
 • Input level : Variable
 Method : Adjust L802 so that the output becomes max.
7. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP4, TP5 (DC Balance)
 TP7(Lch), TP8(Rch) (Distortion)
 • Adjustment location : L801
 • Input level : 60dB μ V
 Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP4 and TP5 becomes 0V \pm 0.04V.
 Next, check that the distortion is less than 1.3%

< DECK SECTION >

8. Tape Speed Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-100(3kHz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : SFR1
 Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz \pm 5Hz(FWD) and \pm 45Hz(REV) with respect to forward speed.
9. Head Azimuth Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300 (315/10kHz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : Head azimuth adjustment screw
 Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.
10. PB Frequency Response Check (DECK 1, DECK 2)
 Settings : • Test tape : TTA-300 (315/10kHz)
 • Test point : TP9(Rch), TP10(Lch)
 Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 0 \pm 2dB.
11. PB Sensitivity Adjustment (DECK 1, DECK 2)
 Settings : • Test tape : TTA-200 (400Hz)
 • Test point : TP9(Rch), TP10(Lch)
 • Adjustment location : SFR301 (DECK 1, Lch)
 SFR302 (DECK 1, Rch)
 SFR303 (DECK 2, Lch)
 SFR304 (DECK 2, Rch)
 Method : Play back the test tape and adjust SFRs so that the output level of the test points become 245mV \pm 10mV.
12. REC/PB Frequency Response Adjustment (DECK 2)
 Settings : • Test tape : TTA-602 (Normal)
 • Test point : TP9(Rch), TP10(Lch)
 • Input signal : 1kHz / 10kHz (LINE IN)
 • Adjustment location : SFR351 (Lch)
 SFR352 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.
13. REC/PB Frequency response Check (DECK 2)
 Settings : • Test tape : TTA-615 (CrO₂)
 • Test point : TP9(Rch), TP10(Lch)
 • Input signal : 1kHz/10kHz (LINE IN)
 Method : Apply a 1kHz signal and REC mode. Then Adjust OSC attenuator so that the output level at the test points becomes 12.5mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB \pm 2dB.
14. REC/PB Sensitivity Adjustment (DECK 2)
 Settings : • Test tape : TTA-602 (Normal)
 • Test point : TP9(Rch), TP10(Lch)
 • Input signal : 1kHz (LINE IN)
 • Adjustment location : SFR305 (Lch)
 SFR306 (Rch)
 Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record the play back the 1kHz signal and adjust SFRs so that the output level becomes 0dB \pm 0.5dB.

15. REC/PB Sensitivity Check (DECK 2)

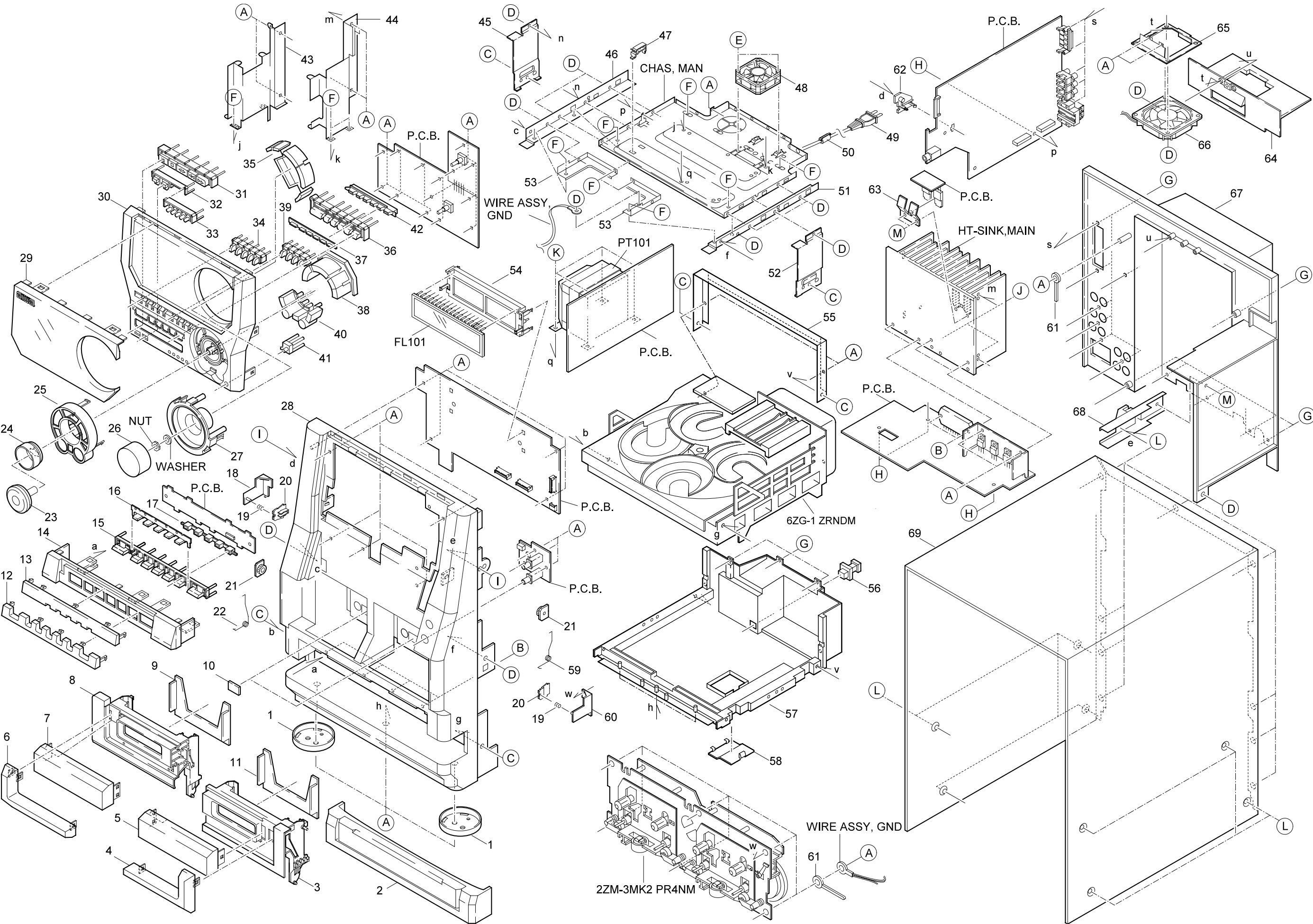
Settings : • Test tape : TTA-615 (CrO₂)
• Test point : TP9(Rch), TP10(Lch)
• Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 125mV. Record and play back the 1kHz signal and check that the output is 0dB \pm 1.5dB.

16. μ -CON OSC Adjustment

Settings : • Test point : TP1(K-SCAN)
• Adjustment location : L101

Method : Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 208.8Hz \pm 0.2Hz.



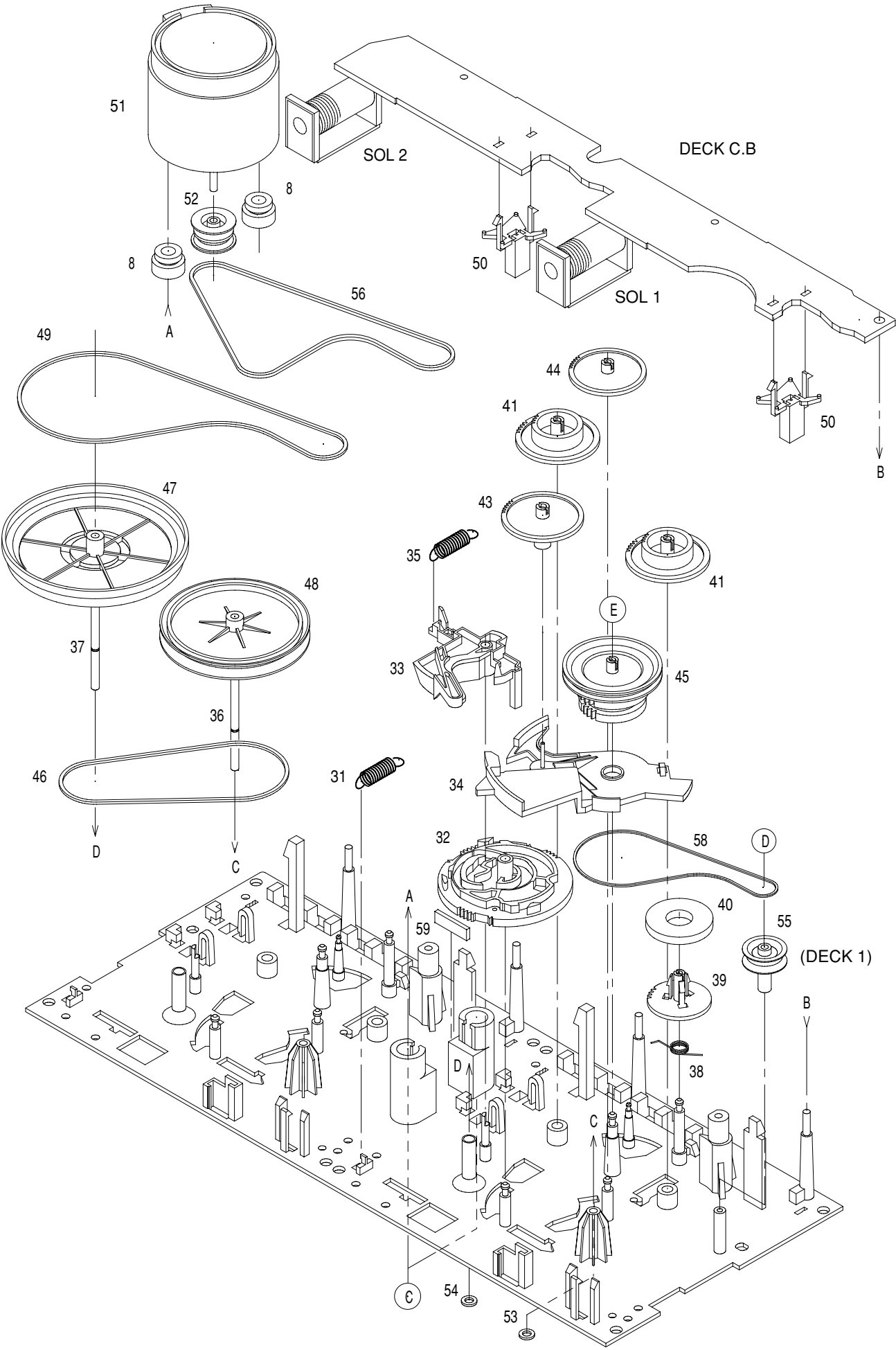
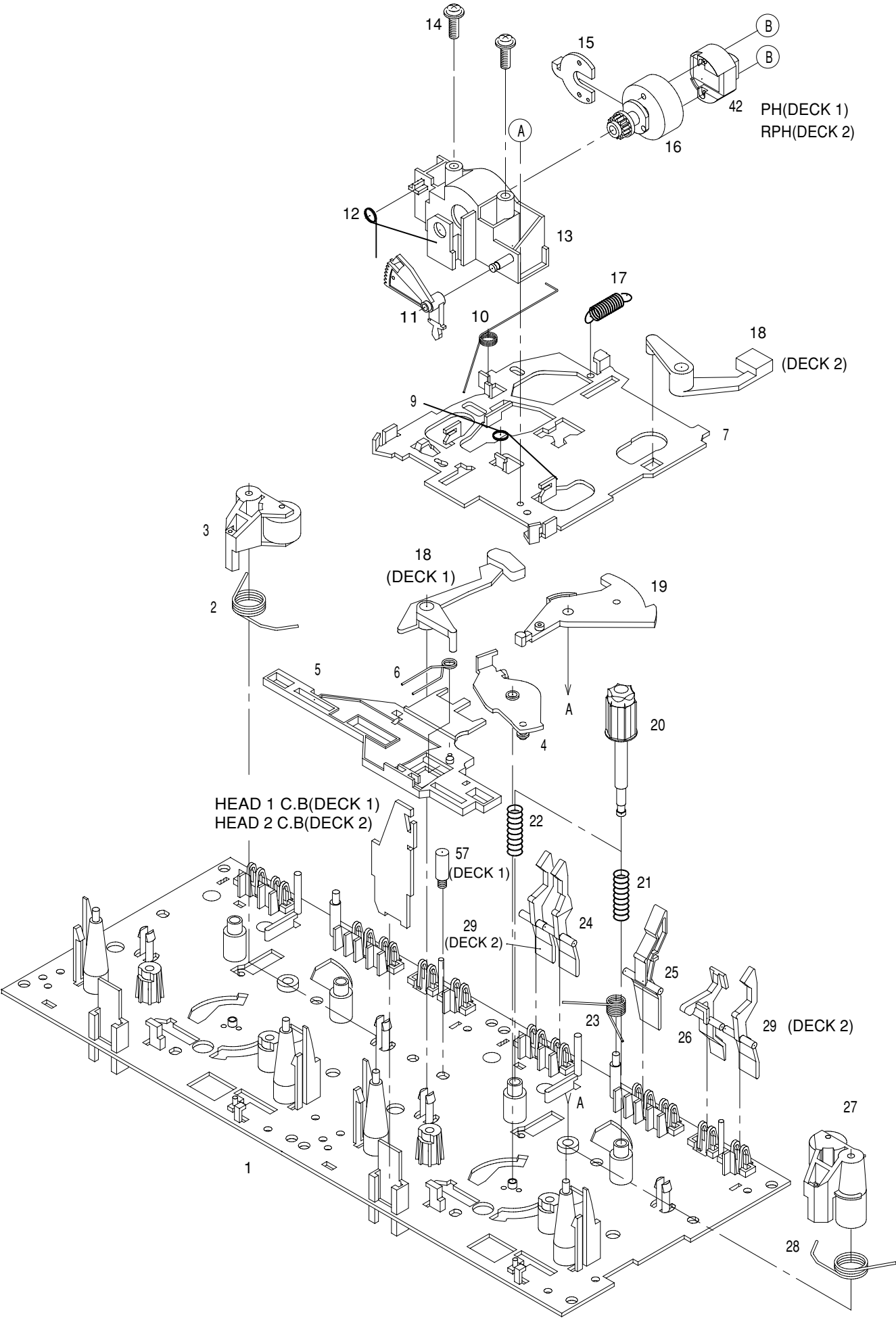
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NF3-090-010		RING, FOOT	43	8A-NF3-213-110		HLDR, HT-SINK L
2	8A-NF3-042-010		PANEL ASSY, TRAY	44	8A-NF3-214-010		HLDR, HT-SINK R
3	8A-NF3-029-010		BOX, CASS R	45	8A-NF3-210-010		HLDR, SIDE L
4	8A-NF3-040-010		PANEL, CASS R	46	8A-NF3-208-010		HLDR, CHAS L
5	8A-NF3-059-010		WINDOW, CASS R	47	87-NF4-221-010		HLDR, CABLE
6	8A-NF3-039-010		PANEL, CASS L	48	87-A91-423-010		FAN, AD0612DS-D7OGL
7	8A-NF3-058-010		WINDOW, CASS L	49	87-A80-148-010		AC CORD ASSY, E BLK<LH>
8	8A-NF3-028-010		BOX, CASS L	49	87-A80-149-010		AC CORD ASSY, U BLK<U>
9	8A-NF3-090-010		REFLECTOR, CASS L	49	87-A80-155-010		AC CORD ASSY, HS TS<HS>
10	81-532-080-010		LABEL, CASS. COMPT	50	87-085-185-010		BUSHING, AC CORD<LH, HS>
11	8A-NF3-091-010		REFLECTOR, CASS R	50	87-A91-422-010		BUSHING, AC CORD (U)
12	8A-NF3-048-010		PANEL, REFLECTOR- CD	51	8A-NF3-209-010		HLDR, CHAS R
13	8A-NF3-049-010		PANEL, KEY-CD	52	8A-NF3-211-010		HLDR, SIDE R
14	8A-NF3-047-010		PANEL, CD	53	8A-NF3-229-010		HLDR, BRACKET
15	8A-NF3-071-010		KEY, CD	54	8Z-NF3-210-010		GUIDE, FL
16	8A-NF3-089-010		REFLECTOR, CD	55	8A-NF3-212-010		HLDR, REAR
17	8A-NF3-203-010		GUIDE, LED-CD	56	84-ZG1-245-210		CAP, OPTICAL
18	87-NF4-216-010		HLDR, LOCK 1	57	8A-NF3-026-010		CABI, BOTTOM
19	86-NF9-224-010		SPR-C, LOCK	58	8Z-NF3-048-010		COVER, BOTTOM
20	82-NF5-229-010		PLATE, LOCK	59	82-NF5-219-010		SPR-T, EJECT 2 (SIN)
21	87-NF8-220-010		DMPR, 150	60	87-NF4-217-110		HLDR, LOCK 2
22	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	61	87-064-185-010		HLDR, WIRE
23	8A-NF3-082-010		KNOB, RTRY JOG	62	8A-NF8-206-010		HLDR, PWB M
24	8A-NF3-087-010		REFLECTOR, JOG	63	8A-NF3-221-010		HLDR, IC-VM
25	8A-NF3-077-010		RING, JOG H<HS, LH>	64	8A-NF3-225-010		COVER, HLDR
25	8A-NF3-078-010		RING, JOG U<U>	65	8A-NF3-223-010		HLDR, FAN
26	8A-NF3-081-010		KNOB, RTRY VOL	66	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
27	8A-NF3-076-010		RING, VOL	67	8A-NF4-011-010		CABI, REAR LHSM<LH>
28	8A-NF3-001-010		CABI, FR	67	8A-NF4-013-010		CABI, REAR USM<U>
29	8A-NF4-051-010		WINDOW, DISP<HS, LH>	67	8A-NF4-016-010		CABI, REAR HSSM<HS>
29	8A-NF4-052-010		WINDOW, DISP U<U>	68	8A-NF3-228-010		HLDR, PWB-PT
30	8A-NF3-031-010		PANEL, FR U	69	8A-NF3-027-010		CABI, STEEL
30	8A-NF3-034-010		PANEL, FR LH<HS, LH>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
31	8A-NF3-063-010		KEY ASSY, OPE	B	87-067-581-010		S-SCREW, BVT2+3-15 W/O SLOT
32	8A-NF3-073-110		KEY, REC U	C	87-721-097-410		QT2+3-12 GLD
33	8A-NF3-065-010		KEY, KARAOKE	D	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
34	8A-NF3-061-010		KEY, GEQ	E	87-B10-190-010		BVT2+3-22 W/O SLOT
35	8A-NF3-067-010		KEY, BBE	F	87-067-689-010		TAPPING SCREW, BVTT+3-8
36	8A-NF3-072-010		KEY, FUNC	G	87-067-761-010		S-SCREW, BVT2+3-10 BLK
37	8A-NF3-088-010		REFLECTOR, FUNC	H	87-NF4-224-010		S-SCREW, IT3B+3-8 CU
38	8A-NF3-068-010		KEY, JOG	I	87-721-096-410		QT2+3-10 W/O SLOT
39	8A-NF3-062-010		KEY, DSP	J	87-067-758-010		S-SCREW, BVT2+3-12 W/O SLOT
40	8A-NF3-069-010		KEY, SPICE	K	87-067-975-010		S-SCREW, IT+4-8
41	8A-NF3-070-010		KEY, ECO	L	87-067-641-010		UTT2+3-8 (W/O SLOT) BL
42	8A-NF3-201-010		GUIDE, LED-FUNC	M	87-067-579-010		BUT2+3-8W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1



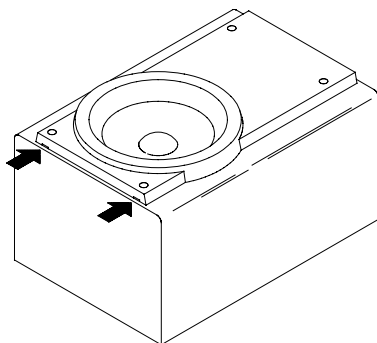
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510		CHAS ASSY,M2	36	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
2	82-ZM1-258-110		SPR-T,PINCH L	37	86-ZM1-206-010		BELT,MAIN L
3	82-ZM1-341-110		LVR ASSY,PINCH L2	38	82-ZM1-322-010		SPR-T,FR60
4	82-ZM1-333-010		PLATE,LINK 2	39	82-ZM1-220-210		GEAR,IDLER
5	82-ZM1-266-11K		LVR,DIR	40	82-ZM3-616-010		RING MAGNET 4
6	82-ZM1-214-010		SPR-T,DIR	41	82-ZM1-216-31K		GEAR,REEL
7	82-ZM1-206-81K		CHAS,HEAD	42	87-A90-319-010		HEAD,PH HADKH2 FPC
8	82-ZM3-340-010		SH,BELT D2	42	87-A90-320-010		HEAD,RPH HADKH5 FPC
9	82-ZM1-269-210		SPR-T,BRG	43	82-ZM1-225-21K		GEAR,FR
10	82-ZM1-219-110		SPR-T,LINK	44	82-ZM1-226-010		GEAR,REW
11	82-ZM1-210-110		GEAR,H T	45	82-ZM3-333-310		SLIP DISK ASSY 2
12	82-ZM1-213-010		SPR-T,HEAD	46	82-ZM1-338-010		BELT FR4
13	82-ZM1-207-610		GUIDE,TAPE	47	82-ZM1-349-110		FLY-WHL,R W (DECK 2)
14	86-ZM4-206-010		S-SCREW,AZIMUTH	47	82-ZM3-338-110		FLY-WHL,R3 W (DECK 1)
15	82-ZM1-314-110		PLATE,HEAD	48	82-ZM1-348-010		FLY-WHL,L W (DECK 2)
16	82-ZM1-208-110		HLDR,HEAD	48	82-ZM1-348-010		FLY-WHL,L W (DECK 1)
17	82-ZM1-218-010		SPR-E,HB	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	50	82-ZM1-245-210		HLDR,IC
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	51	87-045-347-019		MOT,SHU2L 70 (M1)
19	82-ZM1-222-21K		LVR,PLAY	52	82-ZM3-221-010		PULLEY,MOT 2M
20	82-ZM1-217-310		REEL TABLE	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
21	82-ZM1-244-510		SPR-C,BT	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	55	82-ZM3-335-210		PULLEY,COUPLER M3 (DECK 1)
23	82-ZM1-257-010		SPR-T,CAS	56	82-ZM3-337-010		BELT,SBU MOT 2
24	82-ZM1-241-310		LVR,MC	57	82-ZM3-339-010		SHAFT,COUPLER N3 (DECK 1)
25	82-ZM1-242-010		LVR,CAS	58	86-ZM1-206-010		BELT,MAIN L
26	82-ZM1-243-010		LVR,STOP	59	82-ZM3-340-010		SH,BELT D2
27	82-ZM1-344-110		LVR ASSY,PINCH R2	A	85-ZM3-202-010		S-SCREW,TG
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-019		V+1.6-7
29	82-ZM1-240-11K		LVR,REC (DECK 2)	C	82-ZM3-318-019		S-SCRW MOTOR M2
31	82-ZM1-255-310		SPR-E,LVR DIR	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
32	82-ZM3-305-01K		GEAR,CAM M2	E	82-ZM3-334-010		PW,2.16-6-0.4
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				
35	82-ZM1-265-110		SPR-E,TRIG				

SPEAKER DISASSEMBLY INSTRUCTIONS

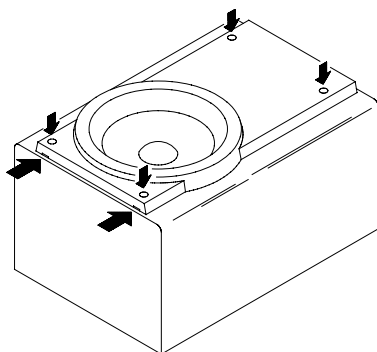
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



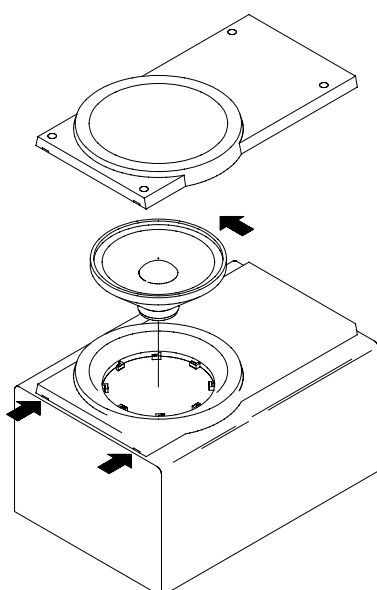
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

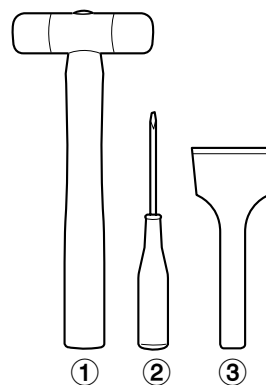


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

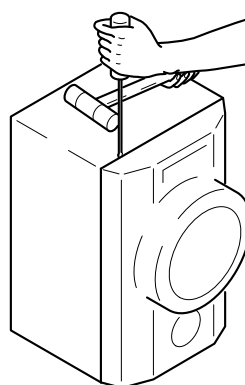


Fig-1

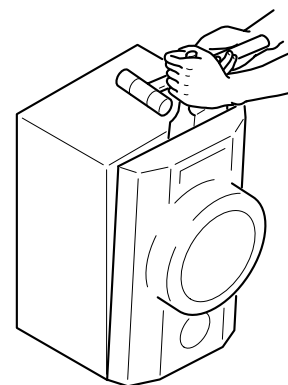


Fig-2

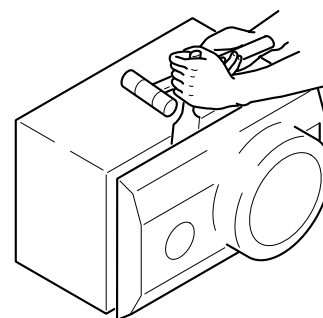


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SX-WND77 (YUSL)<U>, SX-WNT77 (YSL)<HS> SPEAKER PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NS4-001-010		PANEL,FR	11	8A-MS2-605-110		SPKR,TW 60
2	8A-NS4-004-010		PANEL,DUCT	12	88-NSK-610-010		SPKR, CERAMIC ASSY
3	8A-NS4-005-010		PANEL,DUCT RIN	13	88-NS5-610-010		CORD,SPKR
4	8A-NS4-006-010		PANEL,TW R	14	88-NS5-611-010		CORD,SPKR B/L
5	8A-NS4-007-010		PANEL,TW L				
6	8A-NS4-008-010		HLD,PIEZO				
7	8A-MS4-009-010		GRILLE,FRAME ASSY				
8	8A-NS4-013-010		PROTECTOR, TW				
9	88-NS3-602-110		SPKR,W 200				
10	8A-NS4-602-010		SPKR, M 120				

SX-WNT98 (YLSK1M)<LH> SPEAKER PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NS3-001-010		PANEL,FR	16	8A-NS3-019-010		CORD,BUSH
2	8A-NS3-002-010		PANEL,TW L	17	88-NS3-020-010		CORD,BUSH L
3	8A-NS3-003-010		PANEL,TW R	18	8A-NS3-023-010		FOOT,
4	8A-NS3-004-010		PANEL,DUCT RING	19	8A-NSJ-006-010		BADGE,AIWA S35
5	8A-NS3-005-010		PANEL,DUCT	20	8A-NS3-014-010		CABI,TOP
6	8A-NS3-006-010		PANEL,TOP	21	8A-NS3-030-010		UT2 4*12 CM
7	8A-NS3-009-010		ADAPTOR,				
8	8A-NS3-010-010		PROTECTOR,SQA				
9	8A-NS3-011-010		PROTECTOR,TWA				
10	88-NS3-602-110		SPKR, W 200				
11	8A-NS3-602-010		SPKR,M 100				
12	8A-MS2-605-110		SPKR,TW 60				
13	88-NSK-610-010		SPKR, CERAMIC ASSY				
14	88-NS5-610-010		CORD,SPKR				
15	88-NS5-611-010		CORD,SPKR B/L				

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF4-907-010		IB,LH (P) -KIT<LH>
1	8A-NF4-903-010		IB,U (ESF) M<U>
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-115-010		ANT,FEEDER FM
△ 4	87-A91-017-010		PLUG,CONVERSION JT-0476<EXCEPT U>
5	8Z-NF5-702-010		RC UNIT,RC-ZAS04

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

9820572 9630472 0251431

Printed in Singapore